State: Pennsylvania Filing Company: Blue Cross of Northeastern Pennsylvania

TOI/Sub-TOI: LTC03I Individual Long Term Care/LTC03I.001 Qualified

Product Name: Long-Term Care

Project Name/Number: MedAmerica Nationwide 2020 Rate Increase/145MAI01-30.07

# Filing at a Glance

Company: Blue Cross of Northeastern Pennsylvania

Product Name: Long-Term Care State: Pennsylvania

TOI: LTC03I Individual Long Term Care

Sub-TOI: LTC03I.001 Qualified

Filing Type: Rate - Other (Not M.U. or G.I. Product)

Date Submitted: 01/28/2020

SERFF Tr Num: MILL-132019032

SERFF Status: Assigned

State Tr Num: MILL-132019032

State Status: Received Review in Progress

Co Tr Num: SERIES 11 INDIVIDUAL (BCNEPA)

Implementation On Approval

Date Requested:

Author(s): Missy Gordon, Courtney Williamson, Michael Emmert, Dexter Mosley, Cassi Noel, Derek

Lesniak, Matt Mickolichek, Lola Heimlich, Braden McDowell

Reviewer(s): Jim Laverty (primary)

Disposition Date:
Disposition Status:
Implementation Date:

## State Filing Description:

Proposed aggregate 25.2% increase on 93 PA policyholders of BCNEPA's individual Series 11 LTC forms: NTQ11-337-PA-998, LTQ11-336-PA-998, FLQ11-336-PA-998, and HTQ11-338-PA-998.

(BCNEPA)

State: Pennsylvania Filing Company: Blue Cross of Northeastern Pennsylvania

TOI/Sub-TOI: LTC03I Individual Long Term Care/LTC03I.001 Qualified

Product Name: Long-Term Care

Project Name/Number: MedAmerica Nationwide 2020 Rate Increase/145MAI01-30.07

# **General Information**

Project Name: MedAmerica Nationwide 2020 Rate Increase Status of Filing in Domicile: Pending

Project Number: 145MAI01-30.07 Date Approved in Domicile:

Requested Filing Mode: Review & Approval Domicile Status Comments: Pennsylvania is the state of

domicile.

Explanation for Combination/Other: Market Type: Individual Submission Type: New Submission Individual Market Type:

Overall Rate Impact: 25.2% Filing Status Changed: 01/30/2020

State Status Changed: 01/30/2020

Deemer Date: Created By: Kjell Hokanson

Submitted By: Michael Emmert Corresponding Filing Tracking Number:

State TOI: LTC03I Individual Long Term Care

# Filing Description:

On behalf of the company, we are submitting the referenced rate filing for your review. This is an existing product(s) that provides long-term care coverage on an individual basis. The company issued this product(s) in Pennsylvania from August 9, 2001 to December 1, 2004 and is no longer marketed in any jurisdiction. The company is making a similar request on the group product(s) in a concurrent filing (SERFF Tracking # MILL-132021720).

The company is requesting a premium rate increase on the form(s), including all associated riders. The need for a premium rate increase is due to emerging and projected experience running more adverse than originally expected.

This product(s) was designed and priced by MedAmerica Insurance Company (MedAmerica), which is an affinity partner. The product(s) was issued on Blue Cross of Northeastern Pennsylvania (BCNEPA) paper, while MedAmerica administers and manages the block, including underwriting and claims handling. MedAmerica has 100% of the risk on these products via a reinsurance arrangement with BCNEPA.

Additionally, MedAmerica is making a similar request in a concurrent filing(s). These filings use identical pooled nationwide experience of MedAmerica and its affinity partners individual and group business as described in the enclosed actuarial memorandum.

This rate increase request is a follow-up to two prior nationwide requests. However, because this jurisdiction did not allow full implementation of the prior requested increases, the rate level being requested in this follow-up filing was determined to be actuarially equivalent as described in Appendix B to the enclosed actuarial memorandum. As with the prior request, the requested rate increase varies by benefit period. The enclosed cover letter provides the average prior, requested, and cumulative rate increases for the form(s) by benefit period.

The prior increase reflects the cumulative increase of three prior increase(s) that were filed for use in May 2010, September 2017, and December 2018 on the form(s). The company is seeking this current rate increase request to help alleviate the adverse performance on this block of business.

As stated in the enclosed actuarial memorandum, a larger rate increase is justified on this block of business. If it is the Department's position to only allow future rate increases if experience deteriorates from the current most-likely projections used in this filing, the company respectfully requests that the Department notify them and allow the company to revise the current rate increase request.

State: Pennsylvania Filing Company: Blue Cross of Northeastern Pennsylvania

TOI/Sub-TOI: LTC03I Individual Long Term Care/LTC03I.001 Qualified

Product Name: Long-Term Care

Project Name/Number: MedAmerica Nationwide 2020 Rate Increase/145MAI01-30.07

Similar to the prior increase(s), the company will offer insureds affected by the premium increase the option of reducing their policy benefits to provide flexibility of choice for those insureds who wish to maintain a premium level reasonably similar to what they were paying prior to the rate increase. The company will offer a contingent benefit upon lapse to insureds that trigger a substantial rate increase. Additionally, the company will voluntarily offer a contingent benefit upon lapse to insureds affected by the rate increase, even if the increase is not considered substantial.

# **Company and Contact**

# **Filing Contact Information**

Michael Emmert, Associate Actuary michael.emmert@milliman.com

8500 Normandale Lake Blvd. 952-820-3116 [Phone]

**Suite 1850** 

Minneapolis, MN 55437

# **Filing Company Information**

(This filing was made by a third party - millimaninc)

Blue Cross of Northeastern CoCode: 54747 State of Domicile: Pennsylvania Group Code: 1270 Pennsylvania

19 North Main Street Group Name: Hosp Serv Assn of Company Type: HMDI

State ID Number:

Wilkes-Barre, PA 18711 NEPA Gp

(570) 200-4456 ext. [Phone] FEIN Number: 24-0615177

# Filing Fees

Fee Required? No Retaliatory? No

Fee Explanation:

State: Pennsylvania Filing Company: Blue Cross of Northeastern Pennsylvania

TOI/Sub-TOI: LTC03I Individual Long Term Care/LTC03I.001 Qualified

**Product Name:** Long-Term Care

Project Name/Number: MedAmerica Nationwide 2020 Rate Increase/145MAI01-30.07

# **Rate Information**

Rate data applies to filing.

Filing Method: Review and Approval

Rate Change Type: Increase

Overall Percentage of Last Rate Revision: 20.000%

Effective Date of Last Rate Revision: 12/04/2018

Filing Method of Last Filing: Review and Approval SERFF Tracking Number of Last Filing: MILL-131567828

**Company Rate Information** 

Company Name:	Overall % Indicated Change:	Overall % Rate Impact:	Written Premium Change for this Program:	Number of Policy Holders Affected for this Program:	Written Premium for this Program:	Maximum % Change (where req'd):	Minimum % Change (where reg'd):
Blue Cross of Northeastern Pennsylvania	25.200%	25.200%	\$56,273	93	\$223,128	131.200%	22.100%

State: Pennsylvania Filing Company: Blue Cross of Northeastern Pennsylvania

TOI/Sub-TOI: LTC03I Individual Long Term Care/LTC03I.001 Qualified

**Product Name:** Long-Term Care

**Project Name/Number:** MedAmerica Nationwide 2020 Rate Increase/145MAI01-30.07

# Rate/Rule Schedule

No.	Schedule Item Status	Document Name	Affected Form Numbers (Separated with commas)	Rate Action	Rate Action Information	Attachments
1		Series 11 Individual Rate Tables	NTQ11-337-PA-998, LTQ11- 336-PA-998, FLQ11-336-PA- 998, HTQ11-338-PA-998	Revised	Previous State Filing Number: MILL-131567828 Percent Rate Change Request: 25.2	PA_BCNEPA_Current Premium Rates_Series 11 Individual_20200128.p df, PA_BCNEPA_Propose d Premium Rates_Series 11 Individual_20200128.p df,

#### Facility Only Tax Qualified Policy

#### Individual Rates for Lifetime Premium Payment Option 0 Day Elimination Period Current Annual Premium Rates Rates per \$10 Daily Benefit

Policy Form: NTQ11-337-PA-998
Base Rates with No Inflation Protection

Rider: 11-SIP-PA-998 Simple Inflation Protection Rider

Issue		F	Senefit Perio	d			,	Benefit Perio	d			F	Benefit Perio	d	
Age	2 Years	3 Years	4 Years	5 Years	Lifetime	2 Years	3 Years	4 Years	5 Years	Lifetime	2 Years	3 Years	4 Years	5 Years	Lifetime
<40	20	24	26	30	36	10	12	16	18	24	50	64	80	90	110
40	20	24	28	32	38	12	16	18	20	26	54	68	82	94	114
41	22	26	30	34	40	12	16	20	22	28	54	70	86	98	118
42	24	28	32	36	44	12	16	20	24	30	56	72	88	102	122
43	24	30	34	38	46	14	18	22	26	34	60	76	92	106	128
44	26	32	36	40	50	16	20	24	28	36	62	78	96	110	132
45	28	34	38	44	54	16	20	28	30	38	64	82	100	114	136
46	30	36	42	46	58	18	24	28	34	40	66	84	102	120	140
47	32	38	44	50	62	20	26	32	36	44	68	88	108	124	146
48	34	40	48	54	66	20	28	34	38	48	70	92	110	128	152
49	36	44	52	58	72	24	30	36	42	52	74	96	114	132	156
50	38	46	56	62	76	26	34	40	46	58	76	98	116	136	160
51	38	48	56	64	78	26	34	40	46	58	78	98	120	136	162
52	42	52	60	68	84	28	36	44	52	62	78	100	122	140	164
53	44	56	66	74	92	32	38	48	56	66	82	104	126	146	170
54	48	60	72	82	98	34	42	50	58	72	84	108	130	150	178
55	52	66	78	88	108	36	46	56	64	78	88	112	136	156	184
56	56	70	84	96	116	40	50	62	70	84	92	118	142	162	192
57	62	78	92	106	128	42	54	66	74	90	94	120	146	168	196
58	68	84	100	114	138	44	58	72	82	98	96	126	152	176	206
59	74	92	110	126	152	48	64	76	88	104	100	130	158	182	212
60	78	98	118	134	160	52	66	80	92	112	102	132	160	184	216
61	84	108	128	146	176	56	70	88	100	118	106	136	166	192	222
62	92	118	140	160	192	60	76	94	108	128	110	142	172	198	230
63	102	128	154	176	210	64	84	100	116	136	114	148	178	206	238
64	110	140	168	194	230	70	90	108	124	144	120	154	186	212	246
65	122	156	186	214	252	74	94	116	132	156	124	158	194	220	258
66	140	178	216	246	292	84	108	130	150	174	134	174	210	242	278
67	154	196	236	270	318	88	114	138	160	186	138	180	218	250	290
68	168	216	260	298	350	94	120	146	168	196	144	186	224	258	298
69	184	236	284	326	382	100	128	156	180	208	150	192	234	268	308
70 71	202 234	260 302	314	360 418	420 486	106 118	136 150	164	188 210	218 244	154	198	240 262	276 300	318 346
			364					184			168	216			
72	256	330	400	458	534	122 128	158	192	222	254	172	222	268	310	354
73	280	362	436	502	584		164	202	232	266	176	226	276	318	364 372
74 75	306 330	394 422	478 510	548 586	636 677	132 132	172 174	210 212	242 242	278 278	180 180	232 232	282 282	326 326	372 372
76	382	492	596	685	791	148	192	232	268	306	192	252	302	348	398
76 77	418	540	654	753	867	152	192	232	276	318	192	252	302	354	406
77 78	418 458	540 592	719	753 827	951	152	202	240	276 284	318	196	252 256	308	360	410
78 79		592 648	719	907		156	202	246 246	284 284				312	364	
	500				1,041					326	200	258			416
80	548	711 779	865 947	997	1,145	156	202 202	246 246	284 284	326	204	266	322	372 376	424
81	598	779 849	1.035	1,093 1,195	1,253	156 156	202	246	284	326	206	266	324 326	376 378	428
82 83	652 711	925	1,035	1,195	1,369 1,493	156	202	246 246	284	326 326	206 206	268 270	326 328	378 380	430 432
83 84	711	1,009	1,129	1,425	1,493	156	202	246	284 284	326 326	206	270 270	328	380	432 434
84 85	843				1,029	156	202	246 246	284 284	326 326	206	270 270	330	382 382	434
გე	843	1,099	1,343	1,557	1,777	156	202	∠46	∠84	326	200	210	330	382	436

#### Facility Only Tax Qualified Policy

#### Individual Rates for 20-Year Premium Payment Option 0 Day Elimination Period Current Annual Premium Rates Rates per \$10 Daily Benefit

Policy Form: NTQ11-337-PA-998
Base Rates with No Inflation Protection

Rider: 11-SIP-PA-998
Simple Inflation Protection Rider

Issue		Е	Benefit Period	i				Benefit Period	i			E	Benefit Period	i	
<u>Age</u>	2 Years	3 Years	4 Years	5 Years	<u>Lifetime</u>	2 Years	3 Years	4 Years	5 Years	<u>Lifetime</u>	2 Years	3 Years	4 Years	5 Years	<u>Lifetime</u>
<40	30	36	42	46	58	20	26	30	36	44	110	142	172	198	234
40	30	38	44	50	60	22	26	34	38	48	114	144	176	202	238
41	32	40	46	52	64	24	28	36	42	50	116	148	180	206	242
42	34	42	50	56	68	24	30	36	44	54	116	150	180	208	246
43	36	44	52	60	72	26	34	40	46	58	118	154	184	212	250
44	38	46	56	62	76	28	36	42	50	62	120	156	188	216	256
45	40	50	58	66	82	30	38	46	54	64	122	158	192	220	258
46	42	52	62	70	86	32	40	48	56	68	126	162	194	224	262
47	44	56	66	74	92	34 34	42	52	60	72	128	164	198	228	266
48 49	48 50	60 62	70 74	80 84	98 104	38	44 50	56 60	64 70	76 82	128 130	166 168	202 202	230 234	270 272
50	50 54	66	80	90	110	40	52	62	70 74	88	130	168	202	234	272
51	54	66	80	90	110	40	52	62	74	88	132	172	206	238	278
52	56	72	84	96	118	44	54	68	78	92	132	172	206	238	278
53	60	76	90	104	126	46	58	72	82	98	132	172	206	238	278
54	64	82	96	110	134	50	62	78	88	106	134	172	208	240	278
55	68	86	104	118	144	52	68	82	94	112	136	176	210	242	282
56	74	94	112	128	154	54	70	86	100	118	138	176	214	246	288
57	80	100	120	138	166	58	76	92	106	126	138	180	218	250	292
58	84	108	128	148	178	64	80	98	112	132	142	182	222	254	296
59	92	116	138	158	190	66	86	104	120	142	144	186	226	260	302
60	96	122	146	166	200	68	88	106	124	146	144	186	226	260	302
61	102	130	158	180	216	74	94	112	130	152	146	188	226	260	302
62	110	142	170	194	232	78	98	120	138	162	148	190	230	264	306
63	120	152	184	210	250	80	104	126	146	170	150	194	234	268	312
64	128	164	198	228	270	86	112	134	154	180	154	198	238	272	316
65	140	178	214	246	292	90	118	142	162	188	156	202	244	280	322
66 67	158 172	204 220	246 266	282 306	332 358	100 104	128 136	156 164	178 188	208 220	166 170	214 218	258 264	298 302	344 352
68	186	240	288	332	388	110	140	172	196	230	170	222	270	302	356
69	202	260	314	360	422	114	148	180	206	238	176	226	274	314	362
70	220	282	342	392	458	120	156	188	216	248	178	230	278	320	368
71	252	324	392	452	526	132	170	208	236	274	190	248	300	344	396
72	274	352	428	490	572	136	178	214	248	284	194	252	304	352	402
73	298	384	464	534	620	140	182	224	256	294	196	254	310	356	408
74	322	416	504	580	673	146	190	230	264	304	198	258	314	360	414
75	344	444	536	616	713	146	190	230	264	304	198	258	314	360	414
76	398	514	622	717	827	158	206	252	290	332	210	272	330	380	436
77	434	560	681	783	903	162	212	258	298	340	210	274	334	384	438
78	472	610	743	855	983	166	218	264	306	350	212	278	336	388	444
79	514	666	811	933	1,073	166	218	264	306	350	214	278	338	392	446
80	560	727	885	1,021	1,173	166	218	264	306	350	216	282	342	396	450
81	610	793	965	1,115	1,279	166	218	264	306	350	216	282	344	396	452
82	662	863	1,051	1,215	1,391	166	218	264	306	350	216	282	344	398	454
83	719	937	1,143	1,323	1,513	166	218	264	306	350	216	282	344	398	454
84	781	1,017	1,243	1,441	1,645	166	218	264	306	350	216	282	344	398	454
85	847	1,105	1,351	1,567	1,789	166	218	264	306	350	216	282	344	398	454

#### Comprehensive Tax Qualified Policy

#### Individual Rates for Lifetime Premium Payment Option 0 Day Elimination Period Current Annual Premium Rates Rates per \$10 Daily Benefit

Policy Form: LTQ11-336-PA-998
Base Rates with No Inflation Protection

Rider: 11-SIP-PA-998 Simple Inflation Protection Rider

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40	ifetime
40	
41	146
42 32 38 46 52 66 18 24 30 36 48 70 92 112 130 44 40 48 56 72 20 28 34 38 50 72 96 116 134 44 36 44 52 58 76 22 28 36 42 54 74 98 120 140 45 45 38 46 54 62 82 24 32 40 46 58 78 102 126 146 46 40 50 58 68 86 28 28 24 32 42 48 62 88 84 110 134 156 48 47 42 52 62 72 92 28 38 46 54 57 28 86 114 138 160 48 87 87 88 100 104 130 148 156 48 88 89 124 144 156 150 152 66 70 86 88 78 100 30 40 48 56 72 86 88 41 110 134 156 150 152 66 70 86 98 124 38 56 67 8 90 116 36 152 55 16 100 114 146 168 151 52 66 78 89 01 116 36 46 58 66 84 94 120 148 172 153 60 76 82 100 114 146 44 58 70 84 102 100 132 160 186 155 70 90 108 124 156 48 87 08 84 102 100 182 156 156 156 160 186 156 160 186 158 100 182 156 158 100 184 170 200 156 158 100 184 170 200 156 158 100 184 170 200 156 158 100 124 156 184 150 158 159 156 156 156 144 156 110 158 156 158 160 186 158 158 100 184 170 156 158 158 100 182 156 158 100 184 156 158 158 100 182 156 158 100 186 158 158 158 158 158 158 158 158 158 158	150
43	156
444         36         44         52         58         76         22         28         36         42         54         74         98         120         140         46         46         38         46         54         62         82         24         42         48         62         80         104         130         148         46         40         50         58         68         86         26         32         42         48         62         80         104         130         148         48         62         80         104         130         148         48         62         80         104         130         148         48         60         72         84         100         30         40         48         56         72         86         114         138         160         50         52         64         78         90         114         36         46         56         64         84         90         118         144         166         52         66         78         90         116         36         46         58         66         84         94         120         148         172	162
45 38 46 54 62 82 24 32 40 46 58 78 102 126 146 46 46 40 50 50 58 68 86 86 26 32 42 48 86 2 80 104 130 148 47 42 52 62 62 77 92 92 28 38 38 46 52 68 84 110 134 156 48 48 46 56 68 72 86 114 138 160 48 56 72 86 114 138 160 48 56 72 86 114 138 160 50 52 64 78 90 116 32 42 52 60 78 90 118 144 166 50 52 66 78 90 118 144 166 50 52 66 78 90 118 144 166 168 51 52 66 78 90 116 34 44 22 52 56 70 86 84 94 120 148 172 52 56 70 86 98 124 38 50 60 72 90 94 122 148 172 53 60 76 92 106 134 42 54 54 66 76 96 98 126 154 178 55 70 90 108 124 156 48 62 76 90 112 100 132 160 186 55 70 90 108 124 156 48 62 76 90 112 100 132 160 186 55 70 90 108 124 156 48 62 76 90 112 100 132 160 186 55 70 82 106 134 470 52 68 82 98 120 100 114 134 166 192 56 76 96 118 134 170 52 68 82 98 120 108 144 170 200 55 88 90 114 138 160 200 68 72 88 104 128 112 144 170 200 55 88 90 114 138 160 200 68 82 100 124 138 160 186 56 72 88 104 128 112 144 170 200 55 88 90 114 138 160 200 68 88 108 124 156 128 148 172 148 182 148 172 148 172 148 172 148 172 148 172 148 172 148 172 148 172 148	166
46	172
47         42         52         62         72         92         28         38         46         52         68         84         110         134         156           48         46         56         68         78         100         30         40         48         56         72         86         114         138         160           49         48         60         72         84         106         32         42         52         60         78         90         118         144         166           50         52         64         78         90         116         36         46         58         66         84         94         120         146         168           51         52         66         78         90         116         36         46         58         66         84         94         122         148         172           52         56         70         86         98         124         38         50         60         72         90         94         122         148         172           53         60         76         96         18 <td>178</td>	178
48       46       56       68       78       100       30       40       48       56       72       86       114       138       160         49       48       60       72       84       106       32       42       52       60       78       90       118       144       166         50       52       64       78       90       1114       36       46       58       64       84       90       120       148       118         51       52       66       78       90       116       36       46       58       66       84       94       120       148       172         53       60       76       92       106       134       42       54       66       76       96       98       126       154       178         54       66       82       100       114       146       44       58       70       84       102       100       132       160       186         55       70       90       108       124       156       48       62       76       90       112       104       134       166	184
49       48       60       72       84       106       32       42       52       60       78       90       118       144       166         50       52       64       78       90       116       36       46       56       64       84       90       120       146       168         51       52       66       78       90       116       36       46       58       66       84       94       120       148       172         52       56       70       86       98       124       38       50       60       72       90       94       122       148       172         53       60       76       92       106       134       42       54       66       96       98       126       154       178         54       66       82       100       114       146       44       58       70       84       102       100       132       160       186         55       70       90       108       124       156       48       62       76       90       112       104       134       160       186	192
50         52         64         78         90         114         36         46         56         64         84         90         120         146         188           51         52         66         78         90         116         36         46         58         66         84         94         120         148         172           53         60         76         92         106         134         42         54         66         76         96         98         126         154         178           54         66         82         100         114         146         44         58         70         96         98         126         154         178           55         70         90         108         124         156         48         62         76         90         112         104         134         166         192           56         76         96         118         134         170         52         68         82         98         120         108         140         170         200           57         82         106         128         144	196
51         52         66         78         90         116         36         46         58         66         84         94         120         148         172           52         56         70         86         98         124         38         50         60         72         90         94         122         148         172           53         60         76         92         106         134         42         54         66         76         96         98         126         154         178           54         66         82         100         114         146         44         58         70         84         102         100         132         160         186           55         70         90         108         124         156         48         62         76         90         112         104         134         160         186           56         76         96         118         134         170         52         68         82         98         120         108         140         170         200           57         82         106         128	204 206
52         56         70         86         98         124         38         50         60         72         90         94         122         148         172           53         60         76         92         106         134         42         54         66         76         96         98         126         154         178           54         66         82         100         114         146         44         58         70         84         102         100         132         160         186           55         70         90         108         124         156         48         62         76         90         112         104         134         166         192           56         76         96         118         134         170         52         68         82         98         120         104         134         166         192           57         82         106         128         146         184         56         72         88         104         128         112         144         170         206           58         90         114         138 </td <td>210</td>	210
53         60         76         92         106         134         42         54         66         76         96         98         126         154         178           54         66         82         100         114         146         44         58         70         84         102         100         132         160         186           55         70         90         108         124         156         48         62         76         90         112         104         134         166         192           56         76         96         118         134         170         52         68         82         98         120         108         140         170         200           57         82         106         128         146         184         56         72         88         104         128         114         176         206           58         90         114         138         160         200         60         78         96         110         136         114         176         206           60         102         132         160         184 <t< td=""><td></td></t<>	
54         66         82         100         114         146         44         58         70         84         102         100         132         160         186           55         70         90         108         124         156         48         62         76         90         112         104         134         166         192           56         76         96         118         134         170         52         68         82         98         120         108         140         170         200           57         82         106         128         146         184         56         72         88         104         128         112         144         176         206           58         90         114         138         160         200         60         78         96         110         136         114         150         184         212           59         98         124         150         174         216         64         84         104         120         148         118         154         190         218           60         102         132	212 218
55         70         90         108         124         156         48         62         76         90         112         104         134         166         192           56         76         96         118         134         170         52         68         82         98         120         108         140         170         200           57         82         106         128         146         184         56         72         88         104         128         112         144         176         206           58         90         114         138         160         200         60         78         96         110         136         114         150         184         212           59         98         124         150         174         216         64         84         104         120         148         118         154         190         218           60         102         132         160         184         230         68         88         108         126         152         118         156         190         222         250         72         94         116	
56         76         96         118         134         170         52         68         82         98         120         108         140         170         200           57         82         106         128         146         184         56         72         88         104         128         112         144         176         206           58         90         114         138         160         200         60         78         96         110         136         114         150         184         212           59         98         124         150         174         216         64         84         104         120         148         118         154         190         218           60         102         132         160         184         230         68         88         108         126         152         120         156         190         222           61         112         144         174         202         250         72         94         116         134         164         124         160         198         228           62         122         156 </td <td>224</td>	224
57         82         106         128         146         184         56         72         88         104         128         112         144         176         206           58         90         114         138         160         200         60         78         96         110         136         114         150         184         212           59         98         124         150         174         216         64         84         104         120         148         118         154         190         218           60         102         132         160         184         230         68         88         108         126         152         120         156         190         222           61         112         144         174         202         250         72         94         116         134         164         124         160         198         228           62         122         156         190         220         272         76         102         124         144         174         126         166         204         234           63         132	234
58         90         114         138         160         200         60         78         96         110         136         114         150         184         212           59         98         124         150         174         216         64         84         104         120         148         118         154         190         218           60         102         132         160         184         230         68         88         108         126         152         120         156         190         222           61         112         144         174         202         250         72         94         116         134         164         124         160         198         228           62         122         156         190         220         272         76         102         124         144         174         126         166         204         234           63         132         170         208         240         296         82         108         132         154         186         132         172         208         242           64         144         <	240
59         98         124         150         174         216         64         84         104         120         148         118         154         190         218           60         102         132         160         184         230         68         88         108         126         152         120         156         190         222           61         112         144         174         202         250         72         94         116         134         164         124         160         198         228           62         122         156         190         220         272         76         102         124         144         174         126         166         204         234           63         132         170         208         240         296         82         108         132         154         186         132         172         208         242           64         144         186         226         262         322         88         114         142         164         198         136         176         212         140         182         224         260	248 256
60 102 132 160 184 230 68 88 108 126 152 120 156 190 222 661 112 144 174 202 250 72 94 116 134 164 124 160 198 228 62 122 156 190 220 272 76 102 124 144 174 126 166 204 234 63 132 170 208 240 296 82 108 132 154 186 132 172 208 242 64 144 186 226 262 322 88 114 142 164 198 136 176 216 250 65 158 204 248 286 352 94 122 152 176 212 140 182 224 260 66 180 234 284 330 404 106 138 170 196 236 152 198 244 280 67 198 256 312 360 440 110 146 180 210 250 154 202 250 290 68 216 278 340 372 432 524 124 164 202 234 280 164 216 266 250 250 290 68 216 278 340 372 432 524 124 164 202 234 280 164 216 266 334 304 474 574 130 172 212 246 294 168 220 270 314 71 294 384 472 548 662 146 192 236 236 342 184 242 298 346 73 350 458 564 654 791 156 208 256 300 356 186 246 302 354	264
61 112 144 174 202 250 72 94 116 134 164 124 160 198 228 62 122 156 190 220 272 76 102 124 144 174 126 166 204 234 63 132 170 208 240 296 82 108 132 154 186 132 172 208 242 64 144 186 226 262 322 88 114 142 164 198 136 176 216 250 65 158 204 248 286 352 94 122 152 176 212 140 182 224 260 67 198 256 312 360 440 106 138 170 196 236 152 198 244 280 67 198 256 312 360 440 110 146 180 210 250 154 202 250 290 68 216 278 340 394 480 116 156 192 222 256 250 164 216 264 306 70 256 334 408 474 574 130 172 212 246 294 168 220 270 314 71 294 384 472 548 662 146 192 236 236 342 184 242 298 346 73 350 458 564 654 791 156 208 256 300 356 186 246 246 302 354	
62         122         156         190         220         272         76         102         124         144         174         126         166         204         234           63         132         170         208         240         296         82         108         132         154         186         132         172         208         242           64         144         186         226         262         322         88         114         142         164         198         136         176         216         250           65         158         204         248         286         352         94         122         152         176         212         140         182         224         260           66         180         234         284         330         404         106         138         170         196         236         152         198         244         280           67         198         256         312         360         440         110         146         180         210         250         154         202         250         290           68         216	266
63 132 170 208 240 296 82 108 132 154 186 132 172 208 242 64 144 186 226 262 322 88 114 142 164 198 136 176 216 250 65 158 204 248 286 352 94 122 152 176 212 140 182 224 260 66 180 234 284 330 404 106 138 170 196 236 152 198 244 280 67 198 256 312 360 440 110 146 180 210 250 154 202 250 290 68 216 278 340 394 480 116 156 192 222 266 158 210 258 298 69 234 304 372 432 524 124 164 202 234 280 164 216 264 306 70 256 334 408 474 574 130 172 212 246 294 168 220 270 314 71 294 384 472 548 662 146 192 236 236 342 184 242 298 346 73 350 458 564 654 791 156 208 256 300 356 186 246 302 354	274
64 144 186 226 262 322 88 114 142 164 198 136 176 216 250 65 158 204 248 286 352 94 122 152 176 212 140 182 224 260 66 180 234 284 330 404 106 138 170 196 236 152 198 244 280 67 198 256 312 360 440 110 146 180 210 250 154 202 250 290 68 216 278 340 394 480 116 156 192 222 266 158 210 258 298 69 234 304 372 432 524 124 164 202 234 280 164 216 264 306 70 256 334 408 474 574 130 172 212 246 294 168 220 270 314 71 294 384 472 548 662 146 192 236 274 328 182 238 292 338 72 322 420 516 600 725 150 200 246 286 342 184 242 298 346 73 350 458 564 654 791 156 208 256 300 356 186 246 302 354	282
65         158         204         248         286         352         94         122         152         176         212         140         182         224         260           66         180         234         284         330         404         106         138         170         196         236         152         198         244         280           67         198         256         312         360         440         110         146         180         210         250         154         202         250         290           68         216         278         340         394         480         116         156         192         222         266         158         210         258         298           69         234         304         372         432         524         124         164         202         234         280         164         216         264         306           70         256         334         408         474         574         130         172         212         246         294         168         220         270         314           71         294 <td>290</td>	290
66       180       234       284       330       404       106       138       170       196       236       152       198       244       280         67       198       256       312       360       440       110       146       180       210       250       154       202       250       290         68       216       278       340       394       480       116       156       192       222       266       158       210       258       298         69       234       304       372       432       524       124       164       202       234       280       164       216       264       306         70       256       334       408       474       574       130       172       212       246       294       168       220       270       314         71       294       384       472       548       662       146       192       236       274       328       182       238       292       338         72       322       420       516       600       725       150       200       246       286       342	298
67 198 256 312 360 440 110 146 180 210 250 154 202 250 290 68 216 278 340 394 480 116 156 192 222 266 158 210 258 298 69 234 304 372 432 524 124 164 202 234 280 164 216 264 306 70 256 334 408 474 574 130 172 212 246 294 168 220 270 314 71 294 384 472 548 662 146 192 236 274 328 182 238 292 338 72 322 420 516 600 725 150 200 246 286 342 184 242 298 346 73 350 458 564 654 791 156 208 256 300 356 186 246 302 354	310
68     216     278     340     394     480     116     156     192     222     266     158     210     258     298       69     234     304     372     432     524     124     164     202     234     280     164     216     264     306       70     256     334     408     474     574     130     172     212     246     294     168     220     270     314       71     294     384     472     548     662     146     192     236     274     328     182     238     292     338       72     322     420     516     600     725     150     200     246     286     342     184     242     298     346       73     350     458     564     654     791     156     208     256     300     356     186     246     302     354	334
69     234     304     372     432     524     124     164     202     234     280     164     216     264     306       70     256     334     408     474     574     130     172     212     246     294     168     220     270     314       71     294     384     472     548     662     146     192     236     274     328     182     238     292     338       72     322     420     516     600     725     150     200     246     286     342     184     242     298     346       73     350     458     564     654     791     156     208     256     300     356     186     246     302     354	344 354
70     256     334     408     474     574     130     172     212     246     294     168     220     270     314       71     294     384     472     548     662     146     192     236     274     328     182     238     292     338       72     322     420     516     600     725     150     200     246     286     342     184     242     298     346       73     350     458     564     654     791     156     208     256     300     356     186     246     302     354	362
71     294     384     472     548     662     146     192     236     274     328     182     238     292     338       72     322     420     516     600     725     150     200     246     286     342     184     242     298     346       73     350     458     564     654     791     156     208     256     300     356     186     246     302     354	372
72     322     420     516     600     725     150     200     246     286     342     184     242     298     346       73     350     458     564     654     791     156     208     256     300     356     186     246     302     354	402
73 350 458 564 654 791 156 208 256 300 356 186 246 302 354	
	410 416
	422
74 380 498 614 715 861 164 216 268 312 370 190 250 308 358 75 406 530 652 761 911 164 218 270 312 372 190 250 308 358	422
79 400 330 052 761 811 104 210 270 312 372 190 250 300 350 76 470 616 761 887 1,063 180 240 296 346 412 198 262 324 376	444
77 514 677 835 975 1,167 184 246 306 358 424 198 264 326 378	444
78 560 741 917 1,071 1,279 192 254 314 368 438 200 264 326 378	446
79 612 811 1,005 1,175 1,403 192 254 314 368 438 200 264 326 380	446
80 673 891 1,107 1,297 1,547 192 254 314 368 438 200 264 326 380	446
81 733 973 1,213 1,423 1,697 192 254 314 368 438 200 264 326 380	446
82 799 1,065 1,327 1,561 1,859 192 254 314 368 438 200 264 326 380	446
83 871 1,161 1,451 1,709 2,036 192 254 314 368 438 200 264 326 380	446
84 949 1,267 1,587 1,871 2,228 192 254 314 368 438 200 264 326 380 85 1,033 1,383 1,733 2,048 2,438 192 254 314 368 438 200 264 326 380	446 446
85 1,033 1,383 1,733 2,048 2,438 192 254 314 368 438 200 264 326 380	440

#### Comprehensive Tax Qualified Policy

#### Individual Rates for 20-Year Premium Payment Option 0 Day Elimination Period Current Annual Premium Rates Rates per \$10 Daily Benefit

Policy Form: LTQ11-336-PA-998
Base Rates with No Inflation Protection

Rider: 11-SIP-PA-998
Simple Inflation Protection Rider

Issue		Е	Benefit Period	d				Benefit Perio	d			E	Benefit Period	i	
Age	2 Years	3 Years	4 Years	5 Years	<u>Lifetime</u>	2 Years	3 Years	4 Years	5 Years	<u>Lifetime</u>	2 Years	3 Years	4 Years	5 Years	<u>Lifetime</u>
<40	40	50	58	68	88	28	36	46	52	68	136	176	216	250	304
40	42	52	62	72	92	30	40	48	56	72	138	180	220	252	310
41	44	54	66	76	98	32	42	50	58	76	140	182	222	258	314
42	46	58	70	80	102	34	44	54	62	82	142	184	226	262	320
43	48	62	74	84	108	36	46	56	68	86	146	186	226	266	324
44	52	64	78	90	114	38	50	60	70	92	146	192	232	270	330
45	54	68	82	94	122	40	54	64	76	94	148	194	236	274	332
46	58	72	88	100	128	42	56	68	80	102	150	196	240	278	338
47	60	76	92	106	136	46	60	74	86	108	154	200	244	282	342
48	64	82	98	114	144	48	62	78	90	114	156	202	248	286	348
49	68	86	104	120	152	52	68	82	96	122	156	204	248	288	348
50	72	92	110	128	162	54	70	88	100	126	156	204	248	288	348
51	72	92	110	128	162	54	70	88	102	128	158	206	254	292	354
52	76	98	118	136	172	58	74	92	108	134	158	206	254	292	354
53	82	104	126	146	184	60	80	98	112	140	158	206	254	292	354
54	86	110	134	156	196	66	86	104	120	148	158	206	254	292	354
55	92	118	144	166	208	70	90	110	128	158	160	208	254	296	356
56	98	126	154	178	222	74	96	116	134	166	162	212	258	298	360
57	106	136	164	190	238	76	100	124	144	176	164	214	262	304	364
58	112	144	176	204	254	82	108	130	152	186	166	218	266	306	368
59	120	156	188	218	272	86	112	140	160	196	168	218	270	312	372
60	126	162	198	228	284	88	116	142	166	200	168	218	270	312	372
61	136	174	212	246	304	92	122	150	174	212	168	220	270	312	372
62	146	188	228	264	326	98	128	158	184	222	168	222	272	314	376
63	156	202	246	284	350	104	134	166	194	234	172	224	274	318	380
64	168	216	264	306	376	108	144	176	204	246	174	228	278	322	384
65	180	234	286	332	406	114	150	184	212	256	176	230	282	326	388
66	204	266	324	376	458	126	164	204	236	284	188	244	300	348	416
67	220	286	350	406	494	132	172	212	246	298	190	248	304	352	420
68	238	310	380	440	534	138	180	222	258	310	192	250	308	356	424
69 70	256 278	334 362	410 446	476 516	578 626	144 148	188 196	232 240	270 282	322 336	194 196	254 258	312 314	362 366	428 432
70 71	316	414	510	592	717	164	216	264	310	370	208	274	336	390	462
72	342	448	552	644	777	170	224	276	320	382	210	274	340	392	466
73	370	486	600	699	841	170	230	284	332	396	210	278	340	396	470
73 74	400	526	648	757	911	180	238	294	342	408	212	278	344	398	470
75	424	558	687	801	959	180	238	294	342	408	212	278	344	398	470
76	490	644	797	929	1,115	194	258	320	376	444	218	288	354	414	486
77	532	703	869	1,017	1,217	200	266	330	384	458	218	288	356	414	486
78	578	765	949	1,111	1,329	206	274	338	396	468	218	288	356	414	486
79	630	835	1,037	1,215	1,451	206	274	338	396	468	218	288	356	414	486
80	687	913	1,135	1,331	1,589	206	274	338	396	468	218	288	356	414	486
81	747	993	1,239	1,455	1,735	206	274	338	396	468	218	288	356	414	486
82	813	1,083	1,351	1,589	1,895	206	274	338	396	468	218	288	356	414	486
83	883	1,177	1,473	1,735	2,068	206	274	338	396	468	218	288	356	414	486
84	959	1,281	1,605	1,893	2,254	206	274	338	396	468	218	288	356	414	486
85	1,041	1,393	1,747	2,066	2,458	206	274	338	396	468	218	288	356	414	486
		,		,	, . <del>.</del>		•				•			•	

#### Comprehensive Tax Qualified Policy Pennsylvania Franchise

#### Individual Rates for Lifetime Premium Payment Option 0 Day Elimination Period Current Annual Premium Rates Rates per \$10 Daily Benefit

Policy Form: FLQ11-336-PA-998 Base Rates with No Inflation Protection

Rider: 11-SIP-PA-998 Simple Inflation Protection Rider

Issue		E	Benefit Period	ı			ı	Benefit Period	ı				Е	Benefit Period	l	
<u>Age</u>	2 Years	3 Years	4 Years	5 Years	<u>Lifetime</u>	2 Years	3 Years	4 Years	5 Years	<u>Lifetime</u>	<u>2 Ye</u>	<u>ars</u>	3 Years	4 Years	5 Years	<u>Lifetime</u>
<40	24	28	34	38	50	14	18	22	28	34		58	74	90	106	132
40	26	30	36	42	54	14	20	24	28	36		60	78	94	108	136
41	28	32	38	44	56	16	22	28	30	40		62	80	100	114	140
42	28	34	42	46	60	16	22	28	32	44		64	82	100	118	146
43	30	36	44	50	64	18	26	30	34	46		64	86	104	120	150
44	32	40	46	52	68	20	26	32	38	48		66	88	108	126	154
45	34	42	48	56	74	22	28	36	42	52		70	92	114	132	160
46	36	46	52	62	78	24	28	38	44	56		72	94	118	134	166
47	38	46	56	64	82	26	34	42	46	62		76	100	120	140	172
48	42	50	62	70	90	28	36	44	50	64		78	102	124	144	176
49	44	54	64	76	96	28	38	46	54	70		82	106	130	150	184
50	46	58	70	82	102	32	42	50	58	76		82	108	132	152	186
51	46	60	70	82	104	32	42	52	60	76		84	108	134	154	190
52	50	64	78	88	112	34	46	54	64	82		84	110	134	154	190
53	54	68	82	96	120	38	48	60	68	86		88	114	138	160	196
54	60	74	90	102	132	40	52	64	76	92		90	118	144	168	202
55	64	82	98	112	140	44	56	68	82	100		94	120	150	172	210
56	68	86	106	120	154	46	62	74	88	108		98	126	154	180	216
57	74	96	116	132	166	50	64	80	94	116		100	130	158	186	224
58	82	102	124	144	180	54	70	86	100	122		102	136	166	190	230
59	88	112	136	156	194	58	76	94	108	134		106	138	172	196	238
60	92	118	144	166	208	62	80	98	114	136		108	140	172	200	240
61	100	130	156	182	226	64	84	104	120	148		112	144	178	206	246
62	110	140	172	198	244	68	92	112	130	156		114	150	184	210	254
63	118	154	188	216	266	74	98	118	138	168		118	154	188	218	262
64	130	168	204	236	290	80	102	128	148	178		122	158	194	226	268
65	142	184	224	258	316	84	110	136	158	190		126	164	202	234	280
66	162	210	256	298	364	96	124	154	176	212		136	178	220	252	300
67	178	230	280	324	396	100	132	162	190	226		138	182	226	262	310
68	194	250	306	354	432	104	140	172	200	240		142	190	232	268	318
69	210	274	334	388	472	112	148	182	210	252		148	194	238	276	326
70	230	300	368	426	516	118	154	190	222	264		152	198	244	282	334
71	264	346	424	494	596	132	172	212	246	296		164	214	262	304	362
72	290	378	464	540	652	136	180	222	258	308		166	218	268	312	370
73	316	412	508	588	713	140	188	230	270	320		168	222	272	318	374
74	342	448	552	642	775	148	194	242	280	334		172	226	278	322	380
75	366	478	586	685	821	148	196	244	280	334		172	226	278	322	380
76	424	554	685	799	957	162	216	266	312	370		178	236	292	338	400
77	462	608	751	877	1,051	166	222	276	322	382		178	238	294	340	400
78	504	666	825	965	1,151	172	228	282	332	394		180	238	294	340	402
79	550	731	905	1,057	1,263	172	228	282	332	394		180	238	294	342	402
80	604	803	997	1,167	1,393	172	228	282	332	394		180	238	294	342	402
81	658	875	1,091	1,281	1,527	172	228	282	332	394		180	238	294	342	402
82	719	959	1,195	1,405	1,673	172	228	282	332	394		180	238	294	342	402
83	785	1,045	1,307	1,539	1,831	172	228	282	332	394		180	238	294	342	402
84	855	1,141	1,429	1,685	2,006	172	228	282	332	394		180	238	294	342	402
85	929	1,245	1,559	1,843	2,194	172	228	282	332	394		180	238	294	342	402

#### Comprehensive Tax Qualified Policy Pennsylvania Franchise

#### Individual Rates for 20-Year Premium Payment Option 0 Day Elimination Period Current Annual Premium Rates Rates per \$10 Daily Benefit

Policy Form: FLQ11-336-PA-998 Base Rates with No Inflation Protection

Rider: 11-SIP-PA-998 Simple Inflation Protection Rider

Issue		В	Benefit Perio	d				Benefit Perio	d			E	Benefit Perio	d	
<u>Age</u>	2 Years	3 Years	4 Years	5 Years	<u>Lifetime</u>	2 Years	3 Years	4 Years	5 Years	<u>Lifetime</u>	2 Years	3 Years	4 Years	5 Years	<u>Lifetime</u>
<40	36	46	52	62	80	26	32	42	46	62	122	158	194	226	274
40	38	46	56	64	82	28	36	44	50	64	124	162	198	226	280
41	40	48	60	68	88	28	38	46	52	68	126	164	200	232	282
42	42	52	64	72	92	30	40	48	56	74	128	166	204	236	288
43	44	56	66	76	98	32	42	50	62	78	132	168	204	240	292
44	46	58	70	82	102	34	46	54	64	82	132	172	208	244	298
45	48	62	74	84	110	36	48	58	68	84	134	174	212	246	298
46	52	64	80	90	116	38	50	62	72	92	136	176	216	250	304
47	54	68	82	96	122	42	54	66	78	98	138	180	220	254	308
48	58	74 78	88 94	102	130	44	56 62	70 74	82 86	102	140	182	224	258	314 314
49 50	62 64	82	100	108 116	136 146	46 48	64	80	90	110 114	140 140	184 184	224 224	260 260	314
51	64	82	100	116	146	48	64	80	92	116	140	186	228	262	318
52	68	88	106	122	154	52	66	82	98	120	142	186	228	262	318
53	74	94	114	132	166	54	72	88	100	126	142	186	228	262	318
54	78	100	120	140	176	60	78	94	108	134	142	186	228	262	318
55	82	106	130	150	188	64	82	100	116	142	144	188	228	266	320
56	88	114	138	160	200	66	86	104	120	150	146	190	232	268	324
57	96	122	148	172	214	68	90	112	130	158	148	192	236	274	328
58	100	130	158	184	228	74	98	118	136	168	150	196	240	276	332
59	108	140	170	196	244	78	100	126	144	176	152	196	244	280	334
60	114	146	178	206	256	80	104	128	150	180	152	196	244	280	334
61	122	156	190	222	274	82	110	136	156	190	152	198	244	280	334
62	132	170	206	238	294	88	116	142	166	200	152	200	244	282	338
63	140	182	222	256	316	94	120	150	174	210	154	202	246	286	342
64	152	194	238	276	338	98	130	158	184	222	156	206	250	290	346
65	162	210	258	298	366	102	136	166	190	230	158	208	254	294	350
66	184	240	292	338	412	114	148	184	212	256	170	220	270	314	374
67 68	198 214	258 280	316 342	366 396	444 480	118 124	154 162	190 200	222 232	268 280	172 172	224 226	274 278	316 320	378 382
69	230	300	370	428	520	130	170	208	232	290	174	228	280	326	386
70	250	326	402	464	564	134	176	216	254	302	174	232	282	330	388
71	284	372	460	532	644	148	194	238	280	334	188	246	302	352	416
72	308	404	496	580	699	154	202	248	288	344	190	248	306	352	420
73	334	438	540	628	757	156	208	256	298	356	190	250	306	356	424
74	360	474	584	681	821	162	214	264	308	368	190	250	310	358	424
75	382	502	618	721	863	162	214	264	308	368	190	250	310	358	424
76	442	580	717	837	1,003	174	232	288	338	400	196	260	318	372	438
77	478	632	783	915	1,095	180	240	298	346	412	196	260	320	372	438
78	520	689	855	1,001	1,197	186	246	304	356	422	196	260	320	372	438
79	568	751	933	1,093	1,307	186	246	304	356	422	196	260	320	372	438
80	618	821	1,021	1,199	1,431	186	246	304	356	422	196	260	320	372	438
81	673	893	1,115	1,309	1,561	186	246	304	356	422	196	260	320	372	438
82	731	975	1,217	1,431	1,705	186	246	304	356	422	196	260	320	372	438
83	795	1,059	1,325	1,561	1,861	186	246	304	356	422	196	260	320	372	438
84	863	1,153	1,445	1,703	2,028	186	246	304	356	422	196	260	320	372	438
85	937	1,253	1,573	1,859	2,212	186	246	304	356	422	196	260	320	372	438

#### Home Health Only Tax Qualified Policy

#### Individual Rates for Lifetime Premium Payment Option 0 Day Elimination Period Current Annual Premium Rates Rates per \$10 Daily Benefit

Policy Form: HTQ11-338-PA-998 Base Rates with No Inflation Protection

Rider: 11-SIP-PA-998
Simple Inflation Protection Rider

Issue		Е	Senefit Period	d				Benefit Perio	d				В	enefit Period	i	
<u>Age</u>	2 Years	3 Years	4 Years	5 Years	<u>Lifetime</u>	2 Years	3 Years	4 Years	5 Years	<u>Lifetime</u>	<u>2 Y</u>	ears	3 Years	4 Years	5 Years	<u>Lifetime</u>
<40	28	32	34	38	48	12	16	18	22	28		48	58	66	76	90
40	28	32	36	40	52	14	18	20	22	28		52	62	68	78	90
41	30	34	38	42	54	14	18	20	24	30		52	64	70	80	92
42	30	36	40	44	56	16	20	22	26	32		56	64	72	82	96
43	32	38	42	46	58	18	20	22	26	34		56	66	74	84	98
44	34	40	44	48	60	18	22	24	28	36		58	68	76	88	102
45	36	42	46	52	64	18	22	26	28	36		58	70	78	88	102
46	36	44	48	54	66	22	24	28	32	40		62	72	82	92	106
47	38	46	50	56	70	22	26	30	34	40		64	74	84	94	108
48	40	48	52	60	72	24	28	32	34	44		66	78	88	96	112
49	44	50	56	62	76	24	30	34	38	46		66	80	90	100	114
50	46	52	58	66	80	26	32	36	40	46		66	80	90	100	114
51	46	54	60	66	80	26	32	36	40	48		68	82	90	102	116
52	48	56	62	70	84	28	34	38	42	50		68	82	92	102	116
53	50	60	66	74	88	30	36	40	46	52		72	84	94	104	118
54	54	64	70	78	92	32	38	44	48	56		74	86	98	108	122
55	58	68	74	84	98	34	40	46	50	60		76	90	100	110	124
56	62	72	80	90	104	36	44	48	54	62		78	92	102	114	128
57	66	78	86	96	110	38	46	52	58	66		80	94	104	116	130
58	70	82	92	102	118	42	50	54	62	70		84	98	108	120	134
59	76 70	88	98	108	126 130	44	54 54	58	66	72		84	102	112	126	136
60	78	92	102	114		46		60	66	76		86	102	112	126	136
61	84 90	100	110 118	122 130	138	48	56	64	70 70	80		88 92	104 108	114 118	128 132	140 142
62 63	90 98	106 114	118	140	148 158	52 54	62 64	66 72	76 80	84 88		92	110	120	134	142
64	104	122	136	150	168	58	68	74	84	92		96	114	120	134	150
65	114	132	146	162	180	60	72	80	88	98		98	118	124	142	154
66	128	150	166	184	204	68	80	88	96	106		108	126	138	152	164
67	138	162	178	198	218	72	84	92	102	112		110	128	142	156	168
68	150	174	192	212	234	74	88	96	108	116		112	132	144	160	172
69	162	188	206	228	252	78	92	102	112	120		114	136	148	164	174
70	174	204	222	246	270	82	94	106	116	124		118	136	152	166	176
71	198	230	252	280	304	90	106	116	126	136		126	148	162	178	190
72	212	248	272	300	324	94	108	118	132	140		130	150	164	182	192
73	228	266	292	322	346	96	112	122	134	144		130	152	166	184	194
74	244	284	312	344	368	100	116	126	138	146		132	154	168	184	194
75	262	304	330	364	386	100	116	126	138	146		132	154	168	184	194
76	298	346	376	414	438	106	124	136	148	156		140	160	176	192	202
77	322	372	404	444	468	108	126	138	152	158		140	162	178	194	202
78	346	400	434	476	502	112	128	140	154	158		140	162	178	194	202
79	372	430	466	512	536	112	128	140	154	158		142	164	178	194	202
80	402	464	504	550	574	112	128	140	154	158		144	166	178	196	202
81	434	500	540	592	614	112	128	140	154	158		144	166	180	196	202
82	470	538	582	634	658	112	128	140	154	158		144	166	180	196	202
83	508	582	626	683	707	112	128	140	154	158		144	166	180	196	202
84	548	628	675	733	757	112	128	140	154	158		144	166	180	196	202
85	592	677	725	787	811	112	128	140	154	158		144	166	180	196	202

#### Home Health Only Tax Qualified Policy

#### Individual Rates for 20-Year Premium Payment Option 0 Day Elimination Period Current Annual Premium Rates Rates per \$10 Daily Benefit

Policy Form: HTQ11-338-PA-998 Base Rates with No Inflation Protection

Rider: 11-SIP-PA-998
Simple Inflation Protection Rider

Issue		Е	Benefit Period	d				Benefit Perio	d				E	Benefit Period	ı	
Age	2 Years	3 Years	4 Years	5 Years	<u>Lifetime</u>	2 Years	3 Years	4 Years	5 Years	<u>Lifetime</u>	2	Years	3 Years	4 Years	5 Years	<u>Lifetime</u>
<40	38	44	48	54	68	22	28	32	36	44		100	120	134	150	172
40	38	46	50	56	70	24	28	34	38	48		102	122	136	152	174
41	40	48	52	60	74	26	30	36	38	48		104	122	138	152	174
42	42	50	54	62	76	26	32	36	40	50		104	124	140	154	178
43	44	52	58	64	80	28	34	38	44	52		106	126	140	158	178
44	46	54	60	66	82	28	34	40	46	56		106	128	142	160	180
45	48	56	62	70	86	30	36	42	46	56		108	130	144	160	182
46	50	58	64	72	90	32	40	44	50	58		110	132	146	162	182
47	52	62	68	76	92	34	40	46	52	62		110	132	146	164	184
48	54	64	70	80	96	36	42	50	54	64		112	134	150	164	184
49	56	66	74	84	100	38	46	50	56	68		112	134	150	164	184
50	58	68	76	86	102	40	48	52	58	68		112	134	150	164	184
51	60	70	78	88	104	40	48	54	60	70		112	134	150	164	184
52	62	72	80	90	106	40	50	56	62	72		112	134	150	166	186
53	64	76	84	94	112	44	52	58	66	74		112	134	150	166	186
54	68	80	90	100	118	46	54	60	68	76		112	134	150	166	186
55	72	84	94	106	122	48	58	64	70	82		114	136	150	166	186
56	76	90	100	110	128	50	60	66	76	86		116	136	150	168	186
57	80	94	104	118	134	54	64	70	78	88		116	138	152	168	186
58	86	100	110	124	142	54	66	74	82	92		116	140	154	170	186
59	90	106	118	130	150	58	70	76	86	94		118	140	154	172	186
60	94	110	120	134	152	58	70	78	88	98		118	140	154	172	186
61	98	116	128	142	162	62	74	82	90	100		118	140	154	172	186
62 63	104	124 130	136 144	152 160	170 180	66 66	76 80	84 88	94 98	104		120	140 142	154 156	172 172	186
64	112		154	170	190	70	80 82	90	102	108 112		120 122	142	156	172	186 188
65	118 126	140 148	164	182	202	70	88	90	102	116		124	142	158	174	188
66	142	166	182	202	202	80	94	104	116	126		130	154	168	186	200
67	152	178	196	216	238	82	98	104	120	130		132	154	168	188	202
68	162	190	208	230	254	86	102	112	124	132		134	156	172	190	202
69	174	202	222	246	270	88	106	116	128	136		134	158	172	190	202
70	186	216	238	264	288	92	108	118	130	140		136	160	174	190	202
71	210	244	268	296	322	100	118	128	142	150		144	168	184	202	214
72	224	262	286	316	342	102	120	132	146	154		144	168	184	204	214
73	238	278	304	336	362	106	124	136	150	156		146	170	186	204	214
74	254	296	324	358	382	108	126	138	152	160		146	170	186	204	214
75	270	314	342	376	400	108	126	138	152	160		146	170	186	204	214
76	308	356	388	426	452	114	134	146	160	166		150	176	190	210	218
77	330	382	416	456	482	116	136	148	162	168		150	176	190	210	218
78	354	410	444	488	512	118	136	150	164	170		152	176	190	210	218
79	380	438	476	522	546	118	136	150	164	170		152	176	190	210	218
80	408	472	512	560	584	118	136	150	164	170		152	176	190	210	218
81	440	506	548	600	622	118	136	150	164	170		152	176	190	210	218
82	474	544	588	642	666	118	136	150	164	170		152	176	190	210	218
83	510	586	632	689	713	118	136	150	164	170		152	176	190	210	218
84	550	630	679	737	761	118	136	150	164	170		152	176	190	210	218
85	594	679	729	789	813	118	136	150	164	170		152	176	190	210	218

#### Facility Only Tax Qualified Policy

#### Individual Rates for Lifetime Premium Payment Option 0 Day Elimination Period Annual Premium Rates with the Requested Rate Increase Rates per \$10 Daily Benefit

Policy Form: NTQ11-337-PA-998
Base Rates with No Inflation Protection

Rider: 11-SIP-PA-998
Simple Inflation Protection Rider

Issue		Е	Benefit Period					Benefit Period					Е	enefit Period	l	
<u>Age</u>	2 Years	3 Years	4 Years	5 Years	<u>Lifetime</u>	2 Years	3 Years	4 Years	5 Years	<u>Lifetime</u>	2	Years	3 Years	4 Years	5 Years	<u>Lifetime</u>
<40	24	29	32	37	83	12	15	20	22	56		61	78	98	110	255
40	24	29	34	39	88	15	20	22	24	60		66	83	100	115	264
41	27	32	37	42	93	15	20	24	27	65		66	86	105	120	273
42	29	34	39	44	102	15	20	24	29	69		68	88	108	125	282
43	29	37	42	46	106	17	22	27	32	79		73	93	112	130	296
44	32	39	44	49	116	20	24	29	34	83		76	95	117	134	305
45	34	42	46	54	125	20	24	34	37	88		78	100	122	139	315
46	37	44	51	56	134	22	29	34	42	93		81	103	125	147	324
47	39	46	54	61	143	24	32	39	44	102		83	108	132	152	338
48	42	49	59	66	153	24	34	42	46	111		86	112	134	156	352
49	44	54	64	71	167	29	37	44	51	120		90	117	139	161	361
50	46	56	68	76	176	32	42	49	56	134		93	120	142	166	370
51	46	59	68	78	181	32	42	49	56	134		95	120	147	166	375
52	51	64	73	83	194	34	44	54	64	143		95	122	149	171	380
53	54	68	81	90	213	39	46	59	68	153		100	127	154	178	393
54	59	73	88	100	227	42	51	61	71	167		103	132	159	183	412
55	64	81	95	108	250	44	56	68	78	181		108	137	166	191	426
56	68	86	103	117	268	49	61	76	86	194		112	144	174	198	444
57	76	95	112	130	296	51	66	81	90	208		115	147	178	205	454
58	83	103	122	139	319	54	71	88	100	227		117	154	186	215	477
59	90	112	134	154	352	59	78	93	108	241		122	159	193	222	491
60	95	120	144	164	370	64	81	98	112	259		125	161	196	225	500
61	103	132	156	178	407	68	86	108	122	273		130	166	203	235	514
62	112	144	171	196	444	73	93	115	132	296		134	174	210	242	532
63	125	156	188	215	486	78	103	122	142	315		139	181	218	252	551
64	134	171	205	237	532	86	110	132	152	333		147	188	227	259	569 597
65	149	191	227	262	583	90 103	115	142	161	361		152	193	237 257	269	643
66 67	171 188	218 240	264 288	301 330	676 736	103	132 139	159 169	183 196	403 430		164 169	213 220	266	296 306	671
68	205	264	318	364	810	115	147	178	205	454		176	227	274	315	690
69	225	288	347	398	884	122	156	191	220	481		183	235	286	327	713
70	247	318	384	440	972	130	166	200	230	504		188	242	293	337	736
71	286	369	445	511	1,125	144	183	225	257	565		205	264	320	367	801
72	313	403	489	560	1,123	149	193	235	271	588		210	271	327	379	819
73	342	442	533	613	1,351	156	200	247	284	616		215	276	337	389	842
74	374	481	584	670	1,472	161	210	257	296	643		220	284	345	398	861
75	403	516	623	716	1,564	161	213	259	296	643		220	284	345	398	861
76	467	601	728	836	1,828	181	235	284	327	708		235	306	369	425	921
77	511	660	799	919	2,004	186	240	293	337	736		240	308	376	433	940
78	560	723	877	1,009	2,198	191	247	301	347	754		240	313	381	440	949
79	611	792	960	1,107	2,407	191	247	301	347	754		244	315	386	445	963
80	670	868	1,056	1,217	2,647	191	247	301	347	754		249	325	393	455	981
81	731	951	1,156	1,334	2,897	191	247	301	347	754		252	325	396	459	990
82	797	1,036	1,264	1,459	3,166	191	247	301	347	754		252	327	398	462	995
83	868	1,129	1,378	1,593	3,453	191	247	301	347	754		252	330	401	464	1,000
84	946	1,232	1,503	1,740	3,768	191	247	301	347	754		252	330	403	467	1,004
85	1,029	1,342	1,640	1,901	4,110	191	247	301	347	754		252	330	403	467	1,009

#### Facility Only Tax Qualified Policy

#### Individual Rates for 20-Year Premium Payment Option 0 Day Elimination Period Annual Premium Rates with the Requested Rate Increase Rates per \$10 Daily Benefit

Policy Form: NTQ11-337-PA-998
Base Rates with No Inflation Protection

Rider: 11-SIP-PA-998 Simple Inflation Protection Rider

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Issue	- 14		Benefit Perio			- 14		Benefit Perio			- 14		Benefit Perio		
<u>Age</u>	2 Years	3 Years	4 Years	5 Years	<u>Lifetime</u>	2 Years	3 Years	4 Years	5 Years	<u>Lifetime</u>	2 Years	3 Years	4 Years	5 Years	<u>Lifetime</u>
<40	37	44	51	56	134	24	32	37	44	102	134	174	210	242	542
40	37	46	54	61	139	27	32	42	46	111	139	176	215	247	551
41	39	49	56	64	148	29	34	44	51	116	142	181	220	252	560
42	42	51	61	68	157	29	37	44	54	125	142	183	220	254	569
43	44	54	64	73	167	32	42	49	56	134	144	188	225	259	579
44	46	56	68	76	176	34	44	51	61	143	147	191	230	264	592
45	49	61	71	81	190	37	46	56	66	148	149	193	235	269	597
46	51	64	76	86	199	39	49	59	68	157	154	198	237	274	606
47	54	68	81	90	213	42	51	64	73	167	156	200	242	279	616
48	59	73	86	98	227	42	54	68	78	176	156	203	247	281	625
49	61	76	90	103	241	46	61	73	86	190	159	205	247	286	629
50	66	81	98	110	255	49	64	76	90	204	159	205	247	286	629
51	66	81	98	110	255	49	64	76	90	204	161	210	252	291	643
52	68	88	103	117	273	54	66	83	95	213	161	210	252	291	643
53	73	93	110	127	292	56	71	88	100	227	161	210	252	291	643
54	78	100	117	134	310	61	76	95	108	245	164	210	254	293	643
55	83	105	127	144	333	64	83	100	115	259	166	215	257	296	653
56	90	115	137	156	356	66	86	105	122	273	169	215	262	301	666
57	98	122	147	169	384	71	93	112	130	292	169	220	266	306	676
58	103	132	156	181	412	78	98	120	137	305	174	222	271	310	685
59	112	142	169	193	440	81	105	127	147	329	176	227	276	318	699
60	117	149	178	203	463	83	108	130	152	338	176	227	276	318	699
61	125	159	193	220	500	90	115	137	159	352	178	230	276	318	699
62	134	174	208	237	537	95	120	147	169	375	181	232	281	323	708
63	147	186	225	257	579	98	127	154	178	393	183	237	286	327	722
64	156	200	242	279	625	105	137	164	188	417	188	242	291	332	731
65	171	218	262	301	676	110	144	174	198	435	191	247	298	342	745
66	193	249	301	345	768	122	156	191	218	481	203	262	315	364	796
67	210	269	325	374	828	127	166	200	230	509	208	266	323	369	815
68	227	293	352	406	898	134	171	210	240	532	210	271	330	376	824
69	247	318	384	440	977	139	181	220	252	551	215	276	335	384	838
70	269	345	418	479	1,060	147	191	230	264	574	218	281	340	391	852
71	308	396	479	552	1,217	161	208	254	288	634	232	303	367	420	916
72	335	430	523	599	1,324	166	218	262	303	657	237	308	371	430	930
73	364	469	567	653	1,435	171	222	274	313	680	240	310	379	435	944
74	393	508	616	709	1,555	178	232	281	323	704	242	315	384	440	958
75	420	543	655	753	1,648	178	232	281	323	704	242	315	384	440	958
76	486	628	760	875	1,912	193	252	308	354	768	257	332	403	464	1,009
77	530	684	831	956	2,087	198	259	315	364	787	257	335	408	469	1,014
78	577	745	907	1,044	2,273	203	266	323	374	810	259	340	411	474	1,028
79	628	814	990	1,139	2,481	203	266	323	374	810	262	340	413	479	1,032
80	684	887	1,080	1,246	2,712	203	266	323	374	810	264	345	418	484	1,041
81	745	968	1,178	1,361	2,958	203	266	323	374	810	264	345	420	484	1,046
82	809	1,053	1,283	1,484	3,217	203	266	323	374	810	264	345	420	486	1,040
83	877	1,144	1,396	1,615	3,499	203	266	323	374	810	264	345	420	486	1,051
84	953	1,242	1,518	1,760	3,805	203	266	323	374	810	264	345	420	486	1,051
85	1,034	1,349	1,650	1,914	4,138	203	266	323	374	810	264	345	420	486	1,051
00	1,004	1,040	1,000	1,014	4,100	203	200	020	0,4	0.10	204	040	720	400	1,001

#### Comprehensive Tax Qualified Policy

#### Individual Rates for Lifetime Premium Payment Option 0 Day Elimination Period Annual Premium Rates with the Requested Rate Increase Rates per \$10 Daily Benefit

Policy Form: LTQ11-336-PA-998
Base Rates with No Inflation Protection

Rider: 11-SIP-PA-998
Simple Inflation Protection Rider

		_										_			
Issue			Benefit Perio			- 14		Benefit Perio			- 14		Benefit Perio		
<u>Age</u>	2 Years	3 Years	4 Years	5 Years	<u>Lifetime</u>	2 Years	3 Years	4 Years	5 Years	<u>Lifetime</u>	2 Years	3 Years	4 Years	5 Years	<u>Lifetime</u>
<40	32	39	46	51	130	20	24	29	37	88	78	100	122	144	338
40	34	42	49	56	139	20	27	32	37	93	81	105	127	147	347
41	37	44	51	59	143	22	29	37	42	102	83	108	134	154	361
42	39	46	56	64	153	22	29	37	44	111	86	112	137	159	375
43	42	49	59	68	167	24	34	42	46	116	88	117	142	164	384
44	44	54	64	71	176	27	34	44	51	125	90	120	147	171	398
45	46	56	66	76	190	29	39	49	56	134	95	125	154	178	412
46	49	61	71	83	199	32	39	51	59	143	98	127	159	181	426
47	51	64	76	88	213	34	46	56	64	157	103	134	164	191	444
48	56	68	83	95	231	37	49	59	68	167	105	139	169	196	454
49	59	73	88	103	245	39	51	64	73	181	110	144	176	203	472
50	64	73 78	95	110	264	44	56	68	73 78	194	110	144	178	203	472
51	64	81	95	110	268	44	56	71	81	194	115	147	181	210	486
52	68	86	105	120	287	44	61	73	88	208	115	147	181	210	491
53	73	93	112	130	310	51	66	73 81	93	200	120	154	188	218	504
	73 81	100		130	338	54	71	86	103	236			196	218	504 518
54			122								122	161			
55	86	110	132	152	361	59	76	93	110	259	127	164	203	235	542
56	93	117	144	164	393	64	83	100	120	278	132	171	208	244	555
57	100	130	156	178	426	68	88	108	127	296	137	176	215	252	574
58	110	139	169	196	463	73	95	117	134	315	139	183	225	259	592
59	120	152	183	213	500	78	103	127	147	343	144	188	232	266	611
60	125	161	196	225	532	83	108	132	154	352	147	191	232	271	616
61	137	176	213	247	579	88	115	142	164	380	152	196	242	279	634
62	149	191	232	269	629	93	125	152	176	403	154	203	249	286	653
63	161	208	254	293	685	100	132	161	188	430	161	210	254	296	671
64	176	227	276	320	745	108	139	174	200	458	166	215	264	306	690
65	193	249	303	349	815	115	149	186	215	491	171	222	274	318	717
66	220	286	347	403	935	130	169	208	240	546	186	242	298	342	773
67	242	313	381	440	1,018	134	178	220	257	579	188	247	306	354	796
68	264	340	415	481	1,111	142	191	235	271	616	193	257	315	364	819
69	286	371	455	528	1,213	152	200	247	286	648	200	264	323	374	838
70	313	408	499	579	1,328	159	210	259	301	680	205	269	330	384	861
71	359	469	577	670	1,532	178	235	288	335	759	222	291	357	413	930
72	393	513	631	733	1,675	183	244	301	349	791	225	296	364	423	949
73	428	560	689	799	1,828	191	254	313	367	824	227	301	369	433	963
74	464	609	750	873	1,990	200	264	327	381	856	232	306	376	437	977
75	496	648	797	929	2,106	200	266	330	381	861	232	306	376	437	977
76	574	753	929	1,083	2,458	220	293	362	423	953	242	320	396	459	1,028
77	628	826	1,019	1,190	2,698	225	301	374	437	981	242	323	398	462	1,028
78	684	904	1,119	1,308	2,958	235	310	384	450	1,014	244	323	398	462	1,032
79	748	990	1,227	1,435	3,245	235	310	384	450	1,014	244	323	398	464	1,032
80	821	1,088	1,352	1,584	3,578	235	310	384	450	1,014	244	323	398	464	1,032
81	895	1,188	1,481	1,738	3,925	235	310	384	450	1,014	244	323	398	464	1,032
82	975	1,300	1,620	1,906	4,300	235	310	384	450	1,014	244	323	398	464	1,032
83	1,063	1,418	1,772	2,087	4,707	235	310	384	450	1,014	244	323	398	464	1,032
84	1,158	1,547	1,938	2,285	5,151	235	310	384	450	1,014	244	323	398	464	1,032
85	1,261	1,689	2,117	2,500	5,637	235	310	384	450	1,014	244	323	398	464	1,032

#### Comprehensive Tax Qualified Policy

#### Individual Rates for 20-Year Premium Payment Option 0 Day Elimination Period Annual Premium Rates with the Requested Rate Increase Rates per \$10 Daily Benefit

Policy Form: LTQ11-336-PA-998
Base Rates with No Inflation Protection

Rider: 11-SIP-PA-998 Simple Inflation Protection Rider

Issue		Е	Senefit Period	i				Benefit Period	1			E	Benefit Period	i	
<u>Age</u>	2 Years	3 Years	4 Years	5 Years	<u>Lifetime</u>	2 Years	3 Years	4 Years	5 Years	<u>Lifetime</u>	2 Years	3 Years	4 Years	5 Years	<u>Lifetime</u>
<40	49	61	71	83	204	34	44	56	64	157	166	215	264	306	704
40	51	64	76	88	213	37	49	59	68	167	169	220	269	308	717
41	54	66	81	93	227	39	51	61	71	176	171	222	271	315	727
42	56	71	86	98	236	42	54	66	76	190	174	225	276	320	741
43	59	76	90	103	250	44	56	68	83	199	178	227	276	325	750
44	64	78	95	110	264	46	61	73	86	213	178	235	284	330	764
45	66	83	100	115	282	49	66	78	93	218	181	237	288	335	768
46	71	88	108	122	296	51	68	83	98	236	183	240	293	340	782
47	73	93	112	130	315	56 59	73	90	105	250	188	244	298	345	791
48	78	100 105	120 127	139 147	333 352	59 64	76 83	95 100	110 117	264	191 191	247 249	303 303	349 352	805 805
49 50	83 88	112	134	156	352 375	66	86	100	122	282 292	191	249 249	303	352 352	805 805
51	88	112	134	156	375	66	86	108	125	296	193	252	310	357	819
52	93	120	144	166	398	71	90	112	132	310	193	252	310	357	819
53	100	127	154	178	426	73	98	120	137	324	193	252	310	357	819
54	105	134	164	191	454	81	105	127	147	343	193	252	310	357	819
55	112	144	176	203	481	86	110	134	156	366	196	254	310	362	824
56	120	154	188	218	514	90	117	142	164	384	198	259	315	364	833
57	130	166	200	232	551	93	122	152	176	407	200	262	320	371	842
58	137	176	215	249	588	100	132	159	186	430	203	266	325	374	852
59	147	191	230	266	629	105	137	171	196	454	205	266	330	381	861
60	154	198	242	279	657	108	142	174	203	463	205	266	330	381	861
61	166	213	259	301	704	112	149	183	213	491	205	269	330	381	861
62	178	230	279	323	754	120	156	193	225	514	205	271	332	384	870
63	191	247	301	347	810	127	164	203	237	542	210	274	335	389	879
64	205	264	323	374	870	132	176	215	249	569	213	279	340	393	889
65	220	286	349	406	940	139	183	225	259	592	215	281	345	398	898
66	249	325	396	459	1,060	154	200	249	288	657	230	298	367	425	963
67 68	269 291	349 379	428 464	496 538	1,143 1,236	161 169	210 220	259 271	301 315	690 717	232 235	303 306	371 376	430 435	972 981
69	313	408	501	582	1,338	176	230	284	330	745	233	310	376	442	990
70	340	442	545	631	1,449	181	240	293	345	778	240	315	384	447	1,000
71	386	506	623	723	1,657	200	264	323	379	856	254	335	411	477	1,069
72	418	547	675	787	1,796	208	274	337	391	884	257	337	415	479	1,078
73	452	594	733	853	1,944	213	281	347	406	916	257	340	415	484	1,088
74	489	643	792	924	2,106	220	291	359	418	944	259	340	420	486	1,088
75	518	682	838	978	2,217	220	291	359	418	944	259	340	420	486	1,088
76	599	787	973	1,134	2,578	237	315	391	459	1,028	266	352	433	506	1,125
77	650	858	1,061	1,242	2,814	244	325	403	469	1,060	266	352	435	506	1,125
78	706	934	1,158	1,356	3,073	252	335	413	484	1,083	266	352	435	506	1,125
79	770	1,019	1,266	1,484	3,356	252	335	413	484	1,083	266	352	435	506	1,125
80	838	1,114	1,386	1,625	3,675	252	335	413	484	1,083	266	352	435	506	1,125
81	912	1,212	1,513	1,777	4,013	252	335	413	484	1,083	266	352	435	506	1,125
82	992	1,322	1,650	1,941	4,383	252	335	413	484	1,083	266	352	435	506	1,125
83	1,078	1,437	1,799	2,119	4,781	252	335	413	484	1,083	266	352	435	506	1,125
84	1,171	1,564	1,960	2,312	5,212	252	335	413	484	1,083	266	352	435	506	1,125
85	1,271	1,701	2,134	2,522	5,684	252	335	413	484	1,083	266	352	435	506	1,125

#### Comprehensive Tax Qualified Policy Pennsylvania Franchise

#### Individual Rates for Lifetime Premium Payment Option 0 Day Elimination Period Annual Premium Rates with the Requested Rate Increase Rates per \$10 Daily Benefit

Policy Form: FLQ11-336-PA-998 Base Rates with No Inflation Protection

Rider: 11-SIP-PA-998 Simple Inflation Protection Rider

Issue			Benefit Period	ı				Benefit Period				Е	Benefit Period	l	
<u>Age</u>	2 Years	3 Years	4 Years	5 Years	<u>Lifetime</u>	2 Years	3 Years	4 Years	5 Years	<u>Lifetime</u>	2 Years	3 Years	4 Years	5 Years	<u>Lifetime</u>
<40	29	34	42	46	116	17	22	27	34	79	71	90	110	130	305
40	32	37	44	51	125	17	24	29	34	83	73	95	115	132	315
41	34	39	46	54	130	20	27	34	37	93	76	98	122	139	324
42	34	42	51	56	139	20	27	34	39	102	78	100	122	144	338
43	37	44	54	61	148	22	32	37	42	106	78	105	127	147	347
44	39	49	56	64	157	24	32	39	46	111	81	108	132	154	356
45	42	51	59	68	171	27	34	44	51	120	86	112	139	161	370
46	44	56	64	76	181	29	34	46	54	130	88	115	144	164	384
47	46	56	68	78	190	32	42	51	56	143	93	122	147	171	398
48	51	61	76	86	208	34	44	54	61	148	95	125	152	176	407
49	54	66	78	93	222	34	46	56	66	162	100	130	159	183	426
50	56	71	86	100	236	39	51	61	71	176	100	132	161	186	430
51	56	73	86	100	241	39	51	64	73	176	103	132	164	188	440
52	61	78	95	108	259	42	56	66	78	190	103	134	164	188	440
53	66	83	100	117	278	46	59	73	83	199	108	139	169	196	454
54	73	90	110	125	305	49	64	78	93	213	110	144	176	205	467
55	78	100	120	137	324	54	68	83	100	231	115	147	183	210	486
56	83	105	130	147	356	56	76	90	108	250	120	154	188	220	500
57	90	117	142	161	384	61	78	98	115	268	122	159	193	227	518
58	100	125	152	176	417	66	86	105	122	282	125	166	203	232	532
59	108	137	166	191	449	71	93	115	132	310	130	169	210	240	551
60	112	144	176	203	481	76	98	120	139	315	132	171	210	244	555
61	122	159	191	222	523	78	103	127	147	343	137	176	218	252	569
62	134	171	210	242	565	83	112	137	159	361	139	183	225	257	588
63	144	188	230	264	616	90	120	144	169	389	144	188	230	266	606
64	159	205	249	288	671	98	125	156	181	412	149	193	237	276	620
65	174	225	274	315	731	103	134	166	193	440	154	200	247	286	648
66	198	257	313	364	842	117	152	188	215	491	166	218	269	308	694
67	218	281	342	396	916	122	161	198	232	523	169	222	276	320	717
68	237	306	374	433	1,000	127	171	210	244	555	174	232	284	327	736
69	257	335	408	474	1,092	137	181	222	257	583	181	237	291	337	754
70	281	367	450	521	1,194	144	188	232	271	611	186	242	298	345	773
71	323	423	518	604	1,379	161	210	259	301	685	200	262	320	371	838
72	354	462	567	660	1,509	166	220	271	315	713	203	266	327	381	856
73 74	386 418	503 547	621 675	719 785	1,648 1,791	171 181	230 237	281 296	330 342	741 773	205 210	271 276	332 340	389 393	866 879
74 75	410	584	716	836	1,791	181	240	298	342	773	210	276	340	393	879
76	518	677	836	975	2,212	198	264	325	381	856	218	288	357	413	926
76 77	565	743	917	1,070	2,430	203	204	323	393	884	218	200	359	415	926
78	616	814	1.007	1,178	2,430	210	271	345	406	912	220	291	359	415	930
79	672	892	1,105	1,176	2,921	210	279	345	406	912	220	291	359	418	930
80	738	980	1,103	1,425	3,221	210	279	345	406	912	220	291	359	418	930
81	804	1,068	1,332	1,564	3,531	210	279	345	406	912	220	291	359	418	930
82	877	1,171	1,332	1,716	3,869	210	279	345	406	912	220	291	359	418	930
83	958	1,276	1,596	1,879	4,235	210	279	345	406	912	220	291	359	418	930
84	1,044	1,393	1,745	2,058	4,638	210	279	345	406	912	220	291	359	418	930
85	1,134	1,520	1,904	2,251	5,073	210	279	345	406	912	220	291	359	418	930
00	1,104	1,520	1,504	١ د.ح.٠	5,075	210	213	343	700	312	220	201	555	710	330

#### Comprehensive Tax Qualified Policy Pennsylvania Franchise

#### Individual Rates for 20-Year Premium Payment Option 0 Day Elimination Period Annual Premium Rates with the Requested Rate Increase Rates per \$10 Daily Benefit

Policy Form: FLQ11-336-PA-998 Base Rates with No Inflation Protection

Rider: 11-SIP-PA-998 Simple Inflation Protection Rider

Issue		В	enefit Perio	d				Benefit Perio	d			E	Benefit Period	1	
<u>Age</u>	2 Years	3 Years	4 Years	5 Years	<u>Lifetime</u>	2 Years	3 Years	4 Years	5 Years	<u>Lifetime</u>	2 Years	3 Years	4 Years	5 Years	<u>Lifetime</u>
<40	44	56	64	76	185	32	39	51	56	143	149	193	237	276	634
40	46	56	68	78	190	34	44	54	61	148	152	198	242	276	648
41	49	59	73	83	204	34	46	56	64	157	154	200	244	284	653
42	51	64	78	88	213	37	49	59	68	171	156	203	249	288	666
43	54	68	81	93	227	39	51	61	76	181	161	205	249	293	676
44	56	71	86	100	236	42	56	66	78	190	161	210	254	298	690
45	59	76	90	103	255	44	59	71	83	194	164	213	259	301	690
46	64	78	98	110	268	46	61	76	88	213	166	215	264	306	704
47	66	83	100	117	282	51	66	81	95	227	169	220	269	310	713
48	71	90	108	125	301	54	68	86	100	236	171	222	274	315	727
49 50	76 70	95 100	115	132	315 338	56 59	76 78	90 98	105	255 264	171	225 225	274 274	318 318	727 727
50 51	78 78	100	122 122	142 142	338	59	78 78	98 98	110 112	264 268	171 174	225 227	274 279	320	736
52	83	100	130	142	356	64	76 81	100	120	278	174	227	279	320	736
53	90	115	139	161	384	66	88	108	120	292	174	227	279	320	736
54	95	122	147	171	407	73	95	115	132	310	174	227	279	320	736
55	100	130	159	183	435	78	100	122	142	329	176	230	279	325	741
56	108	139	169	196	463	81	105	127	147	347	178	232	284	327	750
57	117	149	181	210	495	83	110	137	159	366	181	235	288	335	759
58	122	159	193	225	528	90	120	144	166	389	183	240	293	337	768
59	132	171	208	240	565	95	122	154	176	407	186	240	298	342	773
60	139	178	218	252	592	98	127	156	183	417	186	240	298	342	773
61	149	191	232	271	634	100	134	166	191	440	186	242	298	342	773
62	161	208	252	291	680	108	142	174	203	463	186	244	298	345	782
63	171	222	271	313	731	115	147	183	213	486	188	247	301	349	791
64	186	237	291	337	782	120	159	193	225	514	191	252	306	354	801
65	198	257	315	364	847	125	166	203	232	532	193	254	310	359	810
66	225	293	357	413	953	139	181	225	259	592	208	269	330	384	866
67	242	315	386	447	1,028	144	188	232	271	620	210	274	335	386	875
68	262	342	418	484	1,111	152	198	244	284	648	210	276	340	391	884
69	281	367	452	523	1,203	159	208	254	298	671	213	279	342	398	893
70	306	398	491	567	1,305	164	215	264	310	699	215	284	345	403	898
71	347	455	562	650	1,490	181	237	291	342	773	230	301	369	430	963
72	376 408	494 535	606 660	709 767	1,615	188 191	247 254	303 313	352 364	796 824	232 232	303 306	374 374	430 435	972 981
73 74	408 440	579	714	831	1,750 1,898	191	254 262	323	364 376	824 852	232	306	374 379	435	981
75	467	613	755	880	1,995	198	262	323	376	852	232	306	379	437	981
76	540	709	875	1,022	2,319	213	284	352	413	926	240	318	389	455	1,014
77	584	772	956	1,117	2,532	220	293	364	423	953	240	318	391	455	1,014
78	635	841	1,044	1,222	2,768	227	301	371	435	977	240	318	391	455	1,014
79	694	917	1,139	1,334	3,022	227	301	371	435	977	240	318	391	455	1,014
80	755	1,002	1,246	1,464	3,309	227	301	371	435	977	240	318	391	455	1,014
81	821	1,090	1,361	1,598	3,610	227	301	371	435	977	240	318	391	455	1,014
82	892	1,190	1,486	1,747	3,943	227	301	371	435	977	240	318	391	455	1,014
83	970	1,293	1,618	1,906	4,304	227	301	371	435	977	240	318	391	455	1,014
84	1,053	1,408	1,765	2,080	4,689	227	301	371	435	977	240	318	391	455	1,014
85	1,144	1,530	1,921	2,270	5,114	227	301	371	435	977	240	318	391	455	1,014

#### Home Health Only Tax Qualified Policy

#### Individual Rates for Lifetime Premium Payment Option 0 Day Elimination Period Annual Premium Rates with the Requested Rate Increase Rates per \$10 Daily Benefit

Policy Form: HTQ11-338-PA-998
Base Rates with No Inflation Protection

Rider: 11-SIP-PA-998
Simple Inflation Protection Rider

Issue		E	Benefit Perio	d				Benefit Perio	d			E	Benefit Perio	d	
Age	2 Years	3 Years	4 Years	5 Years	Lifetime	2 Years	3 Years	4 Years	5 Years	Lifetime	2 Years	3 Years	4 Years	5 Years	Lifetime
<40	34	39	42	46	111	15	20	22	27	65	59	71	81	93	208
40	34	39	44	49	120	17	22	24	27	65	64	76	83	95	208
41	37	42	46	51	125	17	22	24	29	69	64	78	86	98	213
42	37	44	49	54	130	20	24	27	32	74	68	78	88	100	222
43	39	46	51	56	134	22	24	27	32	79	68	81	90	103	227
44	42	49	54	59	139	22	27	29	34	83	71	83	93	108	236
45	44	51	56	64	148	22	27	32	34	83	71	86	95	108	236
46	44	54	59	66	153	27	29	34	39	93	76	88	100	112	245
47	46	56	61	68	162	27	32	37	42	93	78	90	103	115	250
48	49	59	64	73	167	29	34	39	42	102	81	95	108	117	259
49	54	61	68	76	176	29	37	42	46	106	81	98	110	122	264
50	56	64	71	81	185	32	39	44	49	106	81	98	110	122	264
51	56	66	73	81	185	32	39	44	49	111	83	100	110	125	268
52	59	68	76	86	194	34	42	46	51	116	83	100	112	125	268
53	61	73	81	90	204	37	44	49	56	120	88	103	115	127	273
54	66	78	86	95	213	39	46	54	59	130	90	105	120	132	282
55	71	83	90	103	227	42	49	56	61	139	93	110	122	134	287
56	76	88	98	110	241	44	54	59	66	143	95	112	125	139	296
57 58	81 86	95 100	105 112	117 125	255 273	46 51	56 61	64 66	71 76	153 162	98 103	115 120	127 132	142 147	301 310
56 59	93	100	120	132	273	54	66	71	81	167	103	125	137	154	315
60	95 95	112	125	132	301	56	66	73	81	176	105	125	137	154	315
61	103	122	134	149	319	59	68	73 78	86	185	103	123	137	156	324
62	110	130	144	159	343	64	76	76 81	93	194	112	132	144	161	324
63	120	130	154	171	366	66	76 78	88	98	204	112	134	144	164	338
64	127	149	166	183	389	71	83	90	103	213	117	139	152	169	347
65	139	161	178	198	417	73	88	98	108	227	120	144	156	174	356
66	156	183	203	225	472	83	98	108	117	245	132	154	169	186	380
67	169	198	218	242	504	88	103	112	125	259	134	156	174	191	389
68	183	213	235	259	542	90	108	117	132	268	137	161	176	196	398
69	198	230	252	279	583	95	112	125	137	278	139	166	181	200	403
70	213	249	271	301	625	100	115	130	142	287	144	166	186	203	407
71	242	281	308	342	704	110	130	142	154	315	154	181	198	218	440
72	259	303	332	367	750	115	132	144	161	324	159	183	200	222	444
73	279	325	357	393	801	117	137	149	164	333	159	186	203	225	449
74	298	347	381	420	852	122	142	154	169	338	161	188	205	225	449
75	320	371	403	445	893	122	142	154	169	338	161	188	205	225	449
76	364	423	459	506	1,014	130	152	166	181	361	171	196	215	235	467
77	393	455	494	543	1,083	132	154	169	186	366	171	198	218	237	467
78	423	489	530	582	1,162	137	156	171	188	366	171	198	218	237	467
79	455	525	569	626	1,240	137	156	171	188	366	174	200	218	237	467
80	491	567	616	672	1,328	137	156	171	188	366	176	203	218	240	467
81	530	611	660	723	1,421	137	156	171	188	366	176	203	220	240	467
82	574	657	711	775	1,523	137	156	171	188	366	176	203	220	240	467
83	621	711	765	833	1,634	137	156	171	188	366	176	203	220	240	467
84	670	767	824	895	1,750	137	156	171	188	366	176	203	220	240	467
85	723	826	885	960	1,875	137	156	171	188	366	176	203	220	240	467

#### Home Health Only Tax Qualified Policy

#### Individual Rates for 20-Year Premium Payment Option 0 Day Elimination Period Annual Premium Rates with the Requested Rate Increase Rates per \$10 Daily Benefit

Policy Form: HTQ11-338-PA-998
Base Rates with No Inflation Protection

Rider: 11-SIP-PA-998 Simple Inflation Protection Rider

		_					•					_			
Issue			Benefit Perio					Benefit Perio					Benefit Perio		
<u>Age</u>	2 Years	3 Years	4 Years	5 Years	<u>Lifetime</u>	2 Years	3 Years	4 Years	5 Years	<u>Lifetime</u>	2 Years	3 Years	4 Years	5 Years	<u>Lifetime</u>
<40	46	54	59	66	157	27	34	39	44	102	122	147	164	183	398
40	46	56	61	68	162	29	34	42	46	111	125	149	166	186	403
41	49	59	64	73	171	32	37	44	46	111	127	149	169	186	403
42	51	61	66	76	176	32	39	44	49	116	127	152	171	188	412
43	54	64	71	78	185	34	42	46	54	120	130	154	171	193	412
44	56	66	73	81	190	34	42	49	56	130	130	156	174	196	417
45	59	68	76	86	199	37	44	51	56	130	132	159	176	196	421
46	61	71	78	88	208	39	49	54	61	134	134	161	178	198	421
47	64	76	83	93	213	42	49	56	64	143	134	161	178	200	426
48	66	78	86	98	213	42	51	61	66	143	134			200	426
49	68	81	90	103	231	46	56	61	68	157	137	164 164	183 183	200	426
50	71	83	93	105	236	49	59	64	71	157	137	164	183	200	426
50 51	73	86	95 95	103	230	49	59 59	66	73	162	137	164	183	200	426
				110		49			76						430
52 53	76 78	88 93	98 103	110	245 259	49 54	61 64	68 71	76 81	167 171	137 137	164 164	183 183	203 203	430
		93 98				54 56	66		83					203	
54	83		110	122	273			73		176	137	164	183		430
55	88	103	115	130	282	59	71	78	86	190	139	166	183	203	430
56	93	110	122	134	296	61	73	81	93	199	142	166	183	205	430
57	98	115	127	144	310	66	78	86	95	204	142	169	186	205	430
58	105	122	134	152	329	66	81	90	100	213	142	171	188	208	430
59	110	130	144	159	347	71	86	93	105	218	144	171	188	210	430
60	115	134	147	164	352	71	86	95	108	227	144	171	188	210	430
61	120	142	156	174	375	76	90	100	110	231	144	171	188	210	430
62	127	152	166	186	393	81	93	103	115	241	147	171	188	210	430
63	137	159	176	196	417	81	98	108	120	250	147	174	191	210	430
64	144	171	188	208	440	86	100	110	125	259	149	174	191	213	435
65	154	181	200	222	467	90	108	115	130	268	152	178	193	213	435
66	174	203	222	247	518	98	115	127	142	292	159	188	205	227	463
67	186	218	240	264	551	100	120	130	147	301	161	188	205	230	467
68	198	232	254	281	588	105	125	137	152	305	164	191	210	232	467
69	213	247	271	301	625	108	130	142	156	315	164	193	210	232	467
70	227	264	291	323	666	112	132	144	159	324	166	196	213	232	467
71	257	298	327	362	745	122	144	156	174	347	176	205	225	247	495
72	274	320	349	386	791	125	147	161	178	356	176	205	225	249	495
73	291	340	371	411	838	130	152	166	183	361	178	208	227	249	495
74	310	362	396	437	884	132	154	169	186	370	178	208	227	249	495
75	330	384	418	459	926	132	154	169	186	370	178	208	227	249	495
76	376	435	474	521	1,046	139	164	178	196	384	183	215	232	257	504
77	403	467	508	557	1,115	142	166	181	198	389	183	215	232	257	504
78	433	501	543	596	1,185	144	166	183	200	393	186	215	232	257	504
79	464	535	582	638	1,264	144	166	183	200	393	186	215	232	257	504
80	499	577	626	684	1,351	144	166	183	200	393	186	215	232	257	504
81	538	618	670	733	1,439	144	166	183	200	393	186	215	232	257	504
82	579	665	719	785	1,541	144	166	183	200	393	186	215	232	257	504
83	623	716	772	841	1,648	144	166	183	200	393	186	215	232	257	504
84	672	770	829	899	1,759	144	166	183	200	393	186	215	232	257	504
85	726	829	890	963	1,879	144	166	183	200	393	186	215	232	257	504

Filing Company:

Blue Cross of Northeastern Pennsylvania

TOI/Sub-TOI: LTC03I Individual Long Term Care/LTC03I.001 Qualified

Pennsylvania

Product Name: Long-Term Care

State:

Project Name/Number: MedAmerica Nationwide 2020 Rate Increase/145MAI01-30.07

# **Supporting Document Schedules**

Satisfied - Item:	Transmittal Letter (A&H)
Comments:	
Attachment(s):	PA_Cover Letter_BCNEPA_Individual_LRRS_20200128.pdf
Item Status:	
Status Date:	
Bypassed - Item:	Actuarial Certification (A&H)
	Not applicable as this is not a form filing.
Bypass Reason:	Not applicable as this is not a form hilling.
Attachment(s): Item Status:	
Status Date:	
Satisfied - Item:	Actuarial Memorandum and Explanatory Information (A&H)
Comments:	
Attachment(s):	PA_ActMemo_BCNEPA_Individual_LRRS_20200128.pdf PA_Supplement_BCNEPA_Individual_LRRS_20200128.pdf
Item Status:	
Status Date:	
Bypassed - Item:	Advertisements (A&H)
Bypass Reason:	, ,
Attachment(s):	Not applicable as this is not a form filing.
Item Status:	
Status Date:	
Status Date.	
Satisfied - Item:	Authorization to File (A&H)
Comments:	
Attachment(s):	Highmark Inc Letter of Authorization 1-2020.pdf
Item Status:	
Status Date:	
Bypassed - Item:	Insert Page Explanation (A&H)
Bypass Reason:	Not applicable as this is not a form filing.
Attachment(s):	or approach as and is not a form ming.
Item Status:	

SERFF Tracking #:	MILL-132019032	State Tracking #:	MILL-132019032		Company Tracking #:	SERIES 11 INDIVIDUAL (BCNEPA)
State:	Pennsylvania			Filing Company:	Blue Cross of Norti	heastern Pennsylvania
Ol/Sub-TOI:	LTC03I Individ	lual Long Term Care/LTC03I.0	01 Qualified			
Product Name:	Long-Term Ca					
Project Name/Number:	MedAmerica N	lationwide 2020 Rate Increase	e/145MAI01-30.07			
Status Date:						
Satisfied - Item:		Rate Table (A&H)				
Comments:		Rate tables are attached	d on the Rate/Ru	le Schedule tab.		
Attachment(s):						
Item Status:						
Status Date:						
Bypassed - Item:		Replacement Form with	Highlighted Cha	nges (A&H)		
Bypass Reason:		Not applicable as this is	not a form filing.			
Attachment(s):						
Item Status:						
Status Date:						
Bypassed - Item:		Advertisement Complian	nce Certification			
Bypass Reason:		Not applicable as this is	not an advertise	ment filing.		
Attachment(s):						
Item Status:						
Status Date:						
Bypassed - Item:		Reserve Calculation (A&	šН)			
Bypass Reason:		Not applicable as this is	not a form filing.			
Attachment(s):						
Item Status:						
Status Date:						
Bypassed - Item:		Variability Explanation (	A&H)			
Bypass Reason:		Not applicable as this is	· · · · · · · · · · · · · · · · · · ·			
Attachment(s):						
Item Status:						
Status Date:						
Satisfied - Item:		Numerical Data in Exce	<u> </u>			
Comments:						
Attachment(s):		PA_Exhibits and Supple	ement Attachmen	its MedAmerica F	Premier 20200128.xlsb	
Item Status:						
Status Date:						

State: Pennsylvania Filing Company: Blue Cross of Northeastern Pennsylvania

TOI/Sub-TOI: LTC03I Individual Long Term Care/LTC03I.001 Qualified

Product Name: Long-Term Care

**Project Name/Number:** MedAmerica Nationwide 2020 Rate Increase/145MAI01-30.07

Satisfied - Item:	Sample Policyholder Notification Letter
Comments:	
Attachment(s):	CUSTOM BCBS NEPA PH Letter 9.30.19.pdf CUSTOM BCBS NEPA CNF 9.30.19.pdf
Item Status:	
Status Date:	

State: Pennsylvania Filing Company: Blue Cross of Northeastern Pennsylvania

TOI/Sub-TOI: LTC03I Individual Long Term Care/LTC03I.001 Qualified

**Product Name:** Long-Term Care

Project Name/Number: MedAmerica Nationwide 2020 Rate Increase/145MAI01-30.07

Attachment PA\_Exhibits and Supplement Attachments\_MedAmerica\_Premier\_20200128.xlsb is not a PDF document and cannot be reproduced here.



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milliman.com

January 28, 2020

Honorable Jessica K. Altman Insurance Commissioner Pennsylvania Insurance Department (Department)

Via SERFF

Re: Blue Cross of Northeastern Pennsylvania (BCNEPA)

Company NAIC # 54747

SERFF Tracking # MILL-132019032 Series 11 Individual

Comprehensive Form
Facility Only Form
Home Health Only Form
Franchise Comprehensive Form

LTQ11-336-PA-998 NTQ11-337-PA-998 HTQ11-338-PA-998 FLQ11-336-PA-998

# Dear Commissioner Altman:

On behalf of the company, we are submitting the referenced rate filing for your review. This is an existing product(s) that provides long-term care coverage on an individual basis. The company issued this product(s) in Pennsylvania from August 9, 2001 to December 1, 2004 and is no longer marketed in any jurisdiction. The company is making a similar request on the group product(s) in a concurrent filing (SERFF Tracking # MILL-132021720).

The company is requesting a premium rate increase on the above-listed form(s), including all associated riders. The need for a premium rate increase is due to emerging and projected experience running more adverse than originally expected.

This product(s) was designed and priced by MedAmerica Insurance Company (MedAmerica), which is an affinity partner. The product(s) was issued on BCNEPA paper, while MedAmerica administers and manages the block, including underwriting and claims handling. MedAmerica has 100% of the risk on these products via a reinsurance arrangement with BCNEPA.

Additionally, MedAmerica is making a similar request in a concurrent filing(s). These filings use identical pooled nationwide experience of MedAmerica and its affinity partners individual and group business as described in the enclosed actuarial memorandum.

This rate increase request is a follow-up to two prior nationwide requests. However, because this jurisdiction did not allow full implementation of the prior requested increases, the rate level being requested in this follow-up filing was determined to be actuarially equivalent as described in Appendix B to the enclosed actuarial memorandum. As with the prior request, the requested rate increase varies by benefit period. The following table provides the average prior, requested, and cumulative rate increases for the above-listed form(s) by benefit period.

#### Offices in Principal Cities Worldwide

This work product was prepared solely to provide assistance to MedAmerica. Milliman does not intend to benefit and assumes no duty or liability to other parties who receive this work. Milliman recommends recipient be aided by its own actuary or other qualified professional when reviewing the Milliman work product.



## Pennsylvania – BCNEPA Rate Increase Request

Policy Form Cohort	Benefit Period	Prior Increase	Requested Increase	Cumulative Increase
Series 11 Individual	Non-Lifetime	100.1	22.1	144
Series 11 individual	Lifetime	100.1	131.2	363
Average <sup>[1]</sup>		100.1	25.2	151

[1] As of December 31, 2018 and excludes policies assumed to be paid up prior to implementation of the requested rate increase.

The prior increase reflects the cumulative increase of three prior increase(s) that were filed for use in May 2010, September 2017, and December 2018 on the above-listed form(s). The company is seeking this current rate increase request to help alleviate the adverse performance on this block of business.

As stated in the enclosed actuarial memorandum, a larger rate increase is justified on this block of business. If it is the Department's position to only allow future rate increases if experience deteriorates from the current most-likely projections used in this filing, the company respectfully requests that the Department notify them and allow the company to revise the current rate increase request.

Similar to the prior increase(s), the company will offer insureds affected by the premium increase the option of reducing their policy benefits to provide flexibility of choice for those insureds who wish to maintain a premium level reasonably similar to what they were paying prior to the rate increase. The company will offer a contingent benefit upon lapse to insureds that trigger a substantial rate increase. Additionally, the company will voluntarily offer a contingent benefit upon lapse to insureds affected by the rate increase, even if the increase is not considered substantial.

The following electronic items are included with this submission:

- cover letter
- · letter from the company authorizing submission of this filing on its behalf
- actuarial memorandum
- supplement to the actuarial memorandum
- · exhibits and attachments in Excel
- current and proposed premium rate schedules
- sample policyholder notification letter\*

\*Please note that in the future slight variations in language may occur that do not materially change the information being provided to the policyholder. It is our understanding that such variations do not need to be filed with the Department.

No filing fee is required for this submission.



The contact person for this filing is:

Michael Emmert, ASA, MAAA Associate Actuary Milliman, Inc. 8500 Normandale Lake Blvd., Suite 1850 Minneapolis, MN 55437 (952) 820-3116 michael.emmert@milliman.com

Thank you for your assistance in reviewing this filing.

Respectfully,

Missy Gordon, FSA, MAAA Principal and Consulting Actuary

MAG/dpl

**Enclosures** 

Address: 19 N Main St, Wilkes-Barre, Pennsylvania 18711

#### **Series 11 and Prior Actuarial Memorandum**

# January 28, 2020

<u>Product</u>	<u>Number</u>
Series 11 Individual	
Comprehensive Form	LTQ11-336-PA-998
Facility Only Form	NTQ11-337-PA-998
Home Health Only Form	HTQ11-338-PA-998
Franchise Comprehensive Form	FLQ11-336-PA-998

Blue Cross of Northeastern Pennsylvania (BCNEPA) is requesting a rate increase on the above-listed long-term care policy form(s). The company issued this policy form(s) in Pennsylvania from August 2001 through December 2004 and is no longer marketing it in any jurisdiction. As described in the enclosed cover letter, the affinity partner MedAmerica Insurance Company (MedAmerica) designed, priced, administers, and manages the above-listed policy form(s).

Nationwide, MedAmerica and its affinity partners are requesting a premium rate increase that varies by benefit period, except where limited by regulatory restrictions or the limited amount of in-force business. This actuarial memorandum captures the pooled nationwide experience of the above-listed policy form(s) as well as similar individual and group policy forms of the same product series issued nationwide by MedAmerica and its affinity partners.

#### 1. Purpose of Filing

This actuarial memorandum has been prepared for the purpose of demonstrating that the requested rate increase discussed in Section 2 meets the minimum requirements of the applicable sections of the 2014 National Association of Insurance Commissioners (NAIC) Long-Term Care Insurance Model Regulation (Model Regulation). The enclosed supplement to the actuarial memorandum demonstrates compliance with the applicable regulatory requirements of this jurisdiction, to the extent they differ from the Model Regulation, and includes other commonly requested information of this jurisdiction. It may not be suitable for other purposes.

# 2. Requested Rate Increase

The company is requesting a rate increase that varies by benefit period. The rate increase levels were determined to vary by benefit period to better align the rate increase with the adverse experience. Appendix A to this memorandum provides a description of the development of and justification for the assumptions used in this filing, which were used to analyze the adverse experience.

This rate increase request is a follow-up to two prior nationwide requests. In jurisdictions that did not allow full implementation of the prior requested increases, the company is requesting a follow-up increase to achieve an actuarially equivalent lifetime loss ratio to the prior requests. Appendix B to this memorandum provides additional details on the development of and justification for the requested rate increase, including a detailed description of how actuarial equivalence was determined and a demonstration that the requested rate increase does not recoup past losses.

The table below provides the average prior, requested, and cumulative increases by policy form cohort and benefit period based on the nationwide distribution business. The enclosed cover letter provides similar information based on the jurisdiction-specific distribution and discloses the requested rate increase in this jurisdiction.

Address: 19 N Main St, Wilkes-Barre, Pennsylvania 18711

#### **Series 11 and Prior Actuarial Memorandum**

January 28, 2020

# Nationwide Average<sup>[1]</sup> Rate Increase Request

Policy Form Cohort	Benefit Period	Prior Increase	Requested Increase	Cumulative Increase
Prior to	Non-Lifetime	79.4%	48.0%	166%
Series 11	Lifetime	97.0	153.2	399
Series 11	Non-Lifetime	68.4	57.7	166
Individual	Lifetime	108.2	139.5	399
Series 11	Non-Lifetime	82.0	45.9	166
Group	Lifetime	91.4	160.6	399
Average		82.0	76.0	220

[1] As of December 31, 2018 and excludes policies assumed to be paid up prior to implementation of the requested rate increase.

While emerging experience supports a larger rate increase, the company is limiting the increase to be an actuarially equivalent follow-up to the prior requests in order to improve equity across jurisdictions. The company plans to continue to monitor experience and request additional rate increases in the future, to the extent justified. However, if it is the Department's position to only allow future rate increases if experience deteriorates from the current most-likely projections used in this filing, the company respectfully requests that the Department notify them and allow the company to revise the current rate increase request.

Corresponding rate tables reflecting the current and proposed rate increases are enclosed with this filing. Please note that the actual rates implemented may vary slightly from those in the enclosed rate tables due to implementation rounding algorithms.

As the company is not currently marketing new business, the required statement that the renewal premium rate schedules are not greater than the new business premium rate schedules is not applicable.

# 3. Description of Benefits

These products provide long-term care coverage. The Series 11 products are tax-qualified, and were issued on an individual or group basis. The Prior to Series 11 product includes tax-qualified and non-tax qualified policy forms, and was issued on an individual basis. Each product has benefit eligibility requirements that involve activities of daily living (ADL) deficiencies or cognitive impairment. Waiver of premium is provided when certain benefits are being paid. A daily benefit, benefit period, and elimination period were selected at issue.

At issue, the insured may have had the option to choose one of the following inflation options, the availability of which varied by policy form: simple inflation for life, simple inflation for 20 years, or compound inflation. The two simple inflation options provide for benefit levels that increase on each anniversary date by 5% of the daily benefit amount chosen at issue for either the life of the insured or 20 years depending on the option chosen. The compound inflation option provides for benefit levels that increase on each anniversary date by 5% compounded annually for the life of the insured. These automatic increasing benefits apply even when the insured is in claim status. For Series 11 Group forms, the insured may have also had the option of a guaranteed purchase option. Under this option, the insured can purchase additional coverage amounts of 5% per year without additional underwriting.

The available choices for benefit period, elimination period, and inflation option are shown in Section 21.

At issue the insured may have had the option of selecting riders that provide the following types of coverage: nonforfeiture, restoration of benefits, return of premium, shortened benefit period, spousal benefit transfer, survivorship benefit, or monthly home health care benefit. The insured may have had the option to select a lifetime, ten-year, or twenty-year premium payment option.

A contingent benefit upon lapse (CBUL) will be available to all insureds at the time of the rate increase.

Address: 19 N Main St, Wilkes-Barre, Pennsylvania 18711

#### **Series 11 and Prior Actuarial Memorandum**

January 28, 2020

# 4. Renewability

These policies are guaranteed renewable for life.

## 5. Applicability

This rate increase applies to all policies issued on the above-listed form(s) in this jurisdiction. The rate changes will apply to the premium of the base form and all applicable options and riders associated with the base form.

# 6. Actuarial Assumptions

The following assumptions are used to project the experience shown in this filing.

- a. Morbidity reflects claim costs developed using the 2014 Milliman Long-Term Care Guidelines (Guidelines) with adjustments for underwriting selection, an all-lives exposure basis, and four years of retrospective improvement to bring the Guidelines forward to 2018. The claim costs were further adjusted based on historical claim experience by policy form cohort, attained age, duration, individual vs. group, payment type, and coverage type, to the extent credible. These adjustment factors can be found in Exhibit A-5a of Appendix A to this memorandum.
- b. Mortality Rates reflect the 2012 Individual Annuitant Mortality (IAM) Basic table. The mortality rates were adjusted based on historical mortality experience by gender, marital status, attained age, and duration. The adjusted 2012IAM table was then brought forward to 2018 using the 2012IAM attained age mortality improvement scale (i.e., G2 projection scale). These adjustment factors can be found in Exhibit A-1a and A-1c of Appendix A to this memorandum.
- c. <u>Voluntary Lapse Rates</u> vary by policy duration (ultimate for 10+), attained age (ultimate for 65+), benefit period (lifetime or non-lifetime), inflation protection (auto inflation or none), marital status, policy form cohort, and premium payment option. The table below summarizes the ultimate lapse rates by key characteristics for lifetime-pay policies.

# Ultimate Lapse Rates Lifetime-Pay Policies

	Married				Single				
	Lifetime		Non-Lifetime		Lifetime Benefit Period		Non-Lifetime		
	Benefit	Benefit Period Benefit Period		Perioa	Benefit	Perioa	Benefit Period		
Policy Form	Auto	Auto No Auto No		Auto	No	Auto	No		
Cohort	Inflation	Inflation	Inflation	Inflation	Inflation	Inflation	Inflation	Inflation	
Prior to Series 11	0.4%	0.5%	0.5%	0.7%	0.5%	0.6%	0.6%	0.9%	
Series 11 Individual	0.3	0.4	0.4	0.5	0.4	0.5	0.5	0.7	
Series 11 Group	0.6	0.7	0.7	1.0	0.8	0.9	0.9	1.2	

The durational voluntary lapse rates were adjusted based on the following criteria for the limited-pay options:

- For the ten-pay option, a reduction of 65% of the durational lapse rates is assumed for durations one through four, a reduction of 70% of the durational lapse rates is assumed for durations five through eight, and 0% lapse thereafter.
- For the twenty-pay option, a reduction of 50% of the durational lapse rates is assumed for durations one through eight, a reduction of 75% of the durational lapse rates is assumed for durations nine through fifteen, and 0% lapse thereafter.
- d. <u>Benefit Expiry Rates</u> reflect assumed policy termination due to exhaustion of benefits on limited benefit period policies. The rates are based on the 2017 *Guidelines* with adjustments for historical benefit expiry experience and vary by gender, benefit period, and attained age as shown in the following table.

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	Benefit	Attained Age <sup>[1]</sup>										
Gender	Period in Years	<65	65	70	75	80	85	90	95	100	105	110+
Female	1	0.0%	0.1%	0.2%	0.3%	0.8%	2.3%	5.4%	9.7%	11.3%	19.3%	20.7%
	2	0.0	0.0	0.1	0.2	0.5	1.6	4.4	8.2	10.7	19.0	20.7
	3	0.0	0.0	0.1	0.2	0.5	1.3	3.4	6.7	9.3	19.0	20.7
	4	0.0	0.0	0.1	0.1	0.3	0.9	2.5	4.8	7.1	17.0	20.7
	5	0.0	0.0	0.0	0.1	0.2	0.6	1.8	3.7	6.3	14.4	20.7
	Lifetime	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Male	1	0.0	0.1	0.1	0.2	0.5	1.6	4.0	6.9	7.8	11.3	20.7
	2	0.0	0.0	0.1	0.2	0.4	1.1	2.8	5.1	6.0	10.2	20.7
	3	0.0	0.0	0.1	0.1	0.3	8.0	1.9	3.8	4.8	9.1	20.7
	4	0.0	0.0	0.0	0.1	0.2	0.4	1.3	2.4	3.4	7.9	20.7
	5	0.0	0.0	0.0	0.1	0.1	0.3	8.0	2.1	2.9	6.8	20.7
	Lifetime	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

<sup>[1]</sup> The assumption varies by attained age, but is shown every five years for display purposes.

e. <u>Policyholder Behavior Due to the Rate Increase.</u> At the time of a rate increase, insureds have the option to elect a CBUL or reduced benefit options (RBO). An increase in morbidity for adverse selection due to the rate increase is assumed based on the percentage of policies that elect CBUL and RBO.

Insureds who elect a CBUL are modeled as a lapse (i.e., the CBUL benefit is not modeled), which results in a slightly lower lifetime loss ratio than if the CBUL benefit had been modeled. The following table provides the CBUL and RBO election rates, reduction to premiums and benefits due to the impact of RBO elections, and increase in morbidity by requested rate increase levels for lifetime-pay policies. Limited-pay policies are assumed to not elect CBUL or RBO.

**Policyholder Behavior Assumptions** 

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Requested Increase	CBUL Election Rate	RBO Election Rate	Approximate Reduction for RBO <sup>[1]</sup>	Morbidity Increase for Adverse Selection				
0.1 – 9.9%	1%	1%	0.0%	0.4%				
10.0 – 19.9	3	2	0.3	1.0				
20.0 – 39.9	6	5	1.2	2.2				
40.0 – 74.9	8	10	4.0	3.4				
75.0 – 99.9	10	15	7.8	4.6				
100.0 – 149.9	11	20	12.5	5.5				
150.0 – 299.9	12	25	19.7	6.5				

[1] For display purposes, the approximate reduction for RBO values reflect the midpoint of the requested increase within each range. A detailed description of the calculation can be found in Appendix A. For example, the 20.0% – 39.9% range was calculated using the formula in Appendix A and a rate increase of 30%.

- f. <u>Interest Rate</u> consistent with the maximum valuation interest rate applicable to the year of issue (ranges from 3.5% to 5.5% and averages 4.5%) is used to demonstrate compliance with the minimum loss ratio requirements.
- g. Annual Improvement in the mortality and morbidity assumptions is assumed for 10 years starting in 2019. Annual mortality improvement factors vary by attained age and gender based on the G2 improvement scale from the 2012IAM table. Annual morbidity improvement is assumed to be 1.0%.

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h. <u>Expenses</u> have not been explicitly projected for the purpose of demonstrating compliance with minimum loss ratio requirements. Originally filed expense assumptions are assumed to remain appropriate, except that reductions are made to the renewal commission rates so that the total commissions paid before and after any increase in premium are similar (i.e., commissions are not paid on the increased premium).

The above assumptions are based on the experience of the above-listed policy form(s) and similar forms issued by MedAmerica and its affinity partners, other similar business issued by MedAmerica (including its affinity partners and acquired blocks of business), industry experience, and actuarial judgment. The above assumptions are deemed reasonable for the particular policy form(s) in this filing and are considered "most likely" (without explicit margin).

In establishing the assumptions described in this section, the policy design, underwriting, and claims adjudication practices for the above-referenced product(s) were taken into consideration. Appendix A to this memorandum provides a description of the development of and justification for the assumptions used in this filing.

The company is not currently marketing long-term care products. As a result, the requirement to reflect on any assumptions that deviate from those used for pricing other forms currently available for sale is not applicable.

#### 7. Marketing Method

Agents and brokers of the company marketed these products.

### 8. Underwriting Description

Policies on the individual forms were fully underwritten.

On the group forms, actively at work employees were subject to short form underwriting. All others were subject to full underwriting.

Groups of at least 500 employees were eligible to elect modified guaranteed issue underwriting for those actively at work. If the employer agreed to contribute 100% of premium for a base plan for a minimum of three years, no underwriting was required for those actively at work.

For both individual and group business, the company used various underwriting tools in addition to the application, which may have included medical records, an attending physician's statement, telephone interview, and/or face-to-face assessment.

## 9. Premiums

Premiums are unisex and payable for life unless the insured selected a ten-year or twenty-year premium payment option. The premiums may vary by policy form, issue age, elimination period, benefit period, initial daily benefit, inflation option, premium payment option, underwriting class, joint/group discounts, home care percentage, copayment option, marital status at issue, and the selection of any riders.

# 10. Issue Age Range

Issue ages are from 18 to 85.

#### 11. Area Factors

Area factors are not used for these products.

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## 12. Premium Modalization Rules

The following modal factors and percent distributions (based on the nationwide in-force count as of December 31, 2018) are applied to the annual premium (AP):

Premium Mode	Modal Factors	Percent Distribution		
Annual	1.00*AP	47%		
Semi-Annual	0.52*AP	4		
Quarterly	0.26*AP	25		
Monthly	0.09*AP	24		

#### 13. Reserves

Active life reserves and reserves for the election of a CBUL have not been used in the experience exhibits for this rate increase analysis for the purpose of demonstrating compliance with minimum loss ratio requirements. Claim reserves as of December 31, 2018 have been discounted to the incurral date of each respective claim and included in historical incurred claims. An incurred but not reported (IBNR) reserve balance as of December 31, 2018 has been allocated to the 2018 calendar year and included in historical incurred claims.

### 14. Trend Assumptions

As this is not medical insurance, an explicit medical cost trend is not included in the projections.

#### 15. Demonstration of Satisfaction of Loss Ratio Requirements

This filing uses pooled nationwide experience of the above-listed product(s) and similar individual and group products issued nationwide by MedAmerica and its affinity partners. The pooled experience is appropriate to increase credibility and allow for a uniform rate increase request across similar business. Applying a uniform rate increase to the pool of forms maintains the original pricing relationships of the product design and differences between individual and group business.

Further, pooling experience is appropriate because the products issued are identical, the marketing and distribution employed is similar, and the same company (MedAmerica) administers and manages the entire block (including underwriting and claims handling). MedAmerica has 50% to 100% of the risk of the affinity partner forms via reinsurance arrangements with each affinity partner.

Exhibit I provides actual and projected experience using current assumptions. Actual experience is provided from inception through 2018 and then projected on a seriatim basis for 60 years using the current assumptions described above in Section 6. The actual and projected experience is based on nationwide premiums that reflect prior rate increases filed for use between January 2010 and April 2019, which average 82% across all jurisdictions. The after increase projected experience reflects the additional increase needed to achieve the cumulative increases shown in Section 2 on a seriatim basis.

Values in Exhibit I are shown (a) before and (b) after the nationwide requested rate increase. Included are calendar year earned premiums, incurred claims, end of year lives, and annual loss ratios. As shown in Exhibit I-b, the anticipated lifetime loss ratio with the nationwide requested rate increase exceeds the minimum loss ratio required by pre-rate stability regulation.

The following table demonstrates that the lifetime loss ratios by policy form cohort and benefit period also exceed the minimum loss ratio required by pre-rate stability regulation. The final row corresponds to that shown in Exhibit I.

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Nationwide Lifetime Loss Ratios at the Maximum Valuation Interest Rate by Policy Form Cohort and Benefit Period

	Benefit	Before	After
Policy Form Cohort	Period	Increase	Increase
Prior to Series 11	All	103%	98%
Series 11 Individual	All	121	104
Series 11 Group	All	107	92
All	Non-Lifetime	97	88
All	Lifetime	159	130
All	All	113	100

Exhibit II provides a demonstration that the nationwide requested rate increase meets the 58%/85% test required by post-rate stability regulation. This exhibit shows that the sum of the accumulated value of incurred claims without the inclusion of active life reserves, and the present value of projected incurred claims, without the inclusion of active life reserves, will not be less than the sum of the following:

- 1. Accumulated value of the initial earned premium times 58%.
- 2. 85% of the accumulated value of prior premium rate schedule increases,
- 3. Present value of projected initial earned premium times 58%, and
- 4. 85% of the present value of projected premium in excess of the projected initial earned premium.

The projected incurred claims in Exhibit II were increased by 15% from the current assumptions described in Section 6 to reflect assumptions that include moderately adverse conditions.

The following table demonstrates that the 58%/85% test is passed by policy form cohort and benefit period. The 'All' row corresponds to that shown in Exhibit II. Values in the table are shown in millions of dollars.

58%/85% Test by Policy Form Cohort and Benefit Period

Policy Form Cohort			Item 7 <sup>[2]</sup>	Result <sup>[3]</sup>
Prior to Series 11	All	\$149.1	\$257.2	Pass
Series 11 Individual	All	339.4	602.1	Pass
Series 11 Group	All	145.5	226.7	Pass
All	Non-Lifetime	451.5	684.2	Pass
All	Lifetime	182.5	401.8	Pass
All	All	634.0	1,086.0	Pass

<sup>[1]</sup> Item 5 is the Lifetime Earned Premium Times Prescribed Factor.

#### 16. Actual-to-Expected Experience

The following table provides a comparison of actual and projected experience using current assumptions to that expected using original pricing assumptions. Values in the following table are shown (a) before and (b) after the nationwide requested rate increase.

<sup>[2]</sup> Item 7 is Lifetime Incurred Claims with Rate Increase.

<sup>[3]</sup> Test of whether Item 7 is not less than Item 5.

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Nationwide Actual and Expected Loss Ratios by Policy Form Cohort and Benefit Period

		Lifetime Loss Ratio			Actual-to-Expected		
Policy Form	Benefit	Before	After		Before	After	
Cohort	Period	Increase	Increase	Expected	Increase	Increase	
Prior to Series 11	All	96%	91%	66%	1.46	1.39	
Series 11 Individual	All	114	99	58	1.97	1.70	
Series 11 Group	All	99	85	70	1.41	1.22	
All	Non-Lifetime	90	82	64	1.42	1.29	
All	Lifetime	149	124	60	2.50	2.08	
All	All	106	94	63	1.69	1.50	

Actual and projected experience in the above table is identical to that described in Exhibit I, except historical experience is accumulated at MedAmerica's actual historical earned interest rates, which average 5.4% for this block, and projected experience is discounted at MedAmerica's current most-likely interest rate assumption of 4.75%. This 4.75% rate represents MedAmerica's expectation of its long-term investment earnings rate based on the average net investment earnings rate projected for MedAmerica's 2018 cash flow testing.

Expected experience uses the actual policies sold and projects from issue on a seriatim basis using the original pricing assumptions.

Exhibit III provides a comparison of the current and original pricing assumptions that underlie the actual and expected experience described above.

## 17. History of Previous Rate Revisions

Please see the enclosed cover letter, which provides the jurisdiction-specific average prior rate increase and rate history for the above-listed form(s). Section 2 above describes the nationwide average prior rate increase across the pooled experience.

#### 18. Analysis Performed to Consider a Rate Increase

The experience table in Section 16 above demonstrates that experience has been more adverse from that expected using original pricing assumptions as the A:E loss ratios exceeds 1.0. The adverse experience is due to a combination of higher persistency and lower interest.

The following table provides a comparison of actual and projected nationwide experience to that expected in pricing with respect to morbidity, mortality, lapse (combination of voluntary lapse and benefit expiry), interest, and improvement. The current and original pricing assumptions are provided in Exhibit III.

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Impact of Changing from Pricing to Current Assumptions

Scenario	Lifetime Loss Ratio (LLR)	Incremental Impact on the LLR <sup>[1]</sup>	Increase Needed <sup>[2]</sup>
Original pricing assumptions	63%	N/A	N/A
Historical experience through 2018 & projections with pricing assumptions <sup>[3]</sup>	73	16%	145%
Historical experience through 2018 & projections w	ith pricing assum	ptions except for	current:
Interest	81	12	89
Interest, lapse	85	5	34
Interest, lapse, mortality	108	27	155
Interest, lapse, mortality, morbidity	109	1	3
Interest, lapse, mortality, morbidity, improvement	106	-3	-14
Historical experience through 2018 & projections with all current most-likely assumptions <sup>[4]</sup>	106	69	395

<sup>[1]</sup> Calculated as the ratio of the lifetime loss ratio in a given row to that in the row immediately above it less one.
[2] Shows the rate increase needed to reproduce the lifetime loss ratio in the row immediately above it. Calculated without regard to CBUL, RBO, adverse selection, and higher waiver claims due to the needed rate increase.
[3] This row reflects actual historical experience and pricing assumptions projected from the valuation date, reflecting prior rate increases approved through April 12, 2019.

For the business subject to rate stability regulation, an analysis of the projected loss ratio compared to that assumed at the time of original pricing revealed that experience has unfolded more than moderately adverse and crossed the original pricing threshold for which the company could consider a rate increase. At the time the product was priced, MedAmerica management determined the threshold for future increases would be defined as experience exhibiting deterioration of more than 10% of premium compared to that assumed in pricing. Section 16 demonstrates that the 'All' lifetime loss ratio before the requested rate increase using current assumptions is over 100% and well in excess of this original pricing threshold.

### 19. Average Annual Premium in Pennsylvania (Based on December 31, 2018 In-Force)

The number of insureds and the corresponding average annual premium that will be affected by this and the identical, concurrent rate increase filings are shown in the table(s) below. The values provided in the table(s) below exclude policies assumed to be paid up prior to implementation of the requested rate increase.

Pennsylvania - MedAmerica

				After
		Number	Before	Requested
Policy Form	Benefit	of	Increase	Increase
Cohort	Period	Insureds	Premium	Premium
	Non-Lifetime	87	\$2,081	\$2,541
Prior to Series 11	Lifetime	13	4,197	9,704
	Total	100	2,356	3,472
	Non-Lifetime	67	3,045	3,718
Series 11 Individual	Lifetime	30	4,387	10,144
	Total	97	3,460	5,706
	Non-Lifetime	66	1,969	2,404
Series 11 Group	Lifetime	0	0	0
	Total	66	1,969	2,404
	Non-Lifetime	220	2,341	2,858
Total	Lifetime	43	4,329	10,011
	Total	263	2,666	4,028

<sup>[4]</sup> This row is calculated in regards to the pricing lifetime loss ratio of 63%.

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Pennsylvania - BCNEPA

Policy Form Cohort	Benefit Period	Number of Insureds	Before Increase Premium	After Requested Increase Premium
	Non-Lifetime	92	\$2,356	\$2,877
Series 11 Individual	Lifetime	1	6,361	14,711
	Total	93	2,399	3,004
	Non-Lifetime	10	1,045	1,276
Series 11 Group	Lifetime	0	0	0
	Total	10	1,045	1,276
	Non-Lifetime	102	2,228	2,720
Total	Lifetime	1	6,361	14,711
	Total	103	2,268	2,837

#### 20. Proposed Effective Date

This rate increase will apply to policies on their next premium payment date following at least a 60-day policyholder notification period following being filed for use by the department of insurance, but no sooner than 12 months after the prior rate increase was effective.

### 21. Distribution of Business as of December 31, 2018 (Based on Nationwide In-Force Insured Count)

Issue Ages	Percent Distribution
<40	8%
40-44	7
45-49	11
50-54	17
55-59	21
60-64	19
65-69	11
70-74	5
75+	1

Elimination Period	Percent Distribution
0-Day	4%
20-Day	21
30-Day	<1
60-Day	6
90-Day	53
100-Day	5
180-Day	11
365-Day	<1

Benefit Period	Percent Distribution
1-Year	<1%
2-Year	18
3-Year	37
4-Year	8
5-Year	18
Lifetime	19

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Inflation Option	Percent Distribution	
None	39%	
Simple for Life	3	
Compound for Life	38	
Simple for 20 Years	20	
GPO	<1	

Premium Payment Option	Percent Distribution
Ten-Pay	15%
Twenty-Pay	11
Lifetime-Pay	74

Coverage Type	Percent Distribution
Facility Only	11%
Comprehensive	88
Home Health Only	1

### 22. Number of Insureds and Annualized Premium (Based on December 31, 2018 In-Force)

The number of insureds and annualized premium that will be affected by this and the identical, concurrent rate increase filings are shown in the tables below. The values provided in the tables below exclude policies assumed to be paid up prior to implementation of the requested rate increase.

#### Pennsylvania - MedAmerica

Policy Form Cohort	Benefit Period	Number of Insureds	Annualized Premium
	Non-Lifetime	87	\$181,024
Prior to Series 11	Lifetime	13	54,555
	Total	100	235,579
	Non-Lifetime	67	204,011
Series 11 Individual	Lifetime	30	131,599
	Total	97	335,610
	Non-Lifetime	66	129,942
Series 11 Group	Lifetime	0	0
	Total	66	129,942
	Non-Lifetime	220	514,977
Total	Lifetime	43	186,154
	Total	263	701,131

#### Pennsylvania - BCNEPA

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Policy Form Cohort	Benefit Period	Number of Insureds	Annualized Premium	
	Non-Lifetime	92	\$216,767	
Series 11 Individual	Lifetime	1	6,361	
	Total	93	223,128	
	Non-Lifetime	10	10,449	
Series 11 Group	Lifetime	0	0	
	Total	10	10,449	
	Non-Lifetime	102	227,216	
Total	Lifetime	1	6,361	
	Total	103	233,577	

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#### **Nationwide**

Policy Form Cohort	Benefit Period	Number of Insureds	Annualized Premium
	Non-Lifetime	719	\$1,768,076
Prior to Series 11	Lifetime	332	1,015,415
	Total	1,051	2,783,491
	Non-Lifetime	4,807	9,020,569
Series 11 Individual	Lifetime	1,553	5,273,045
	Total	6,360	14,293,614
	Non-Lifetime	4,457	7,048,528
Series 11 Group	Lifetime	60	162,672
	Total	4,517	7,211,200
	Non-Lifetime	9,983	17,837,173
Total	Lifetime	1,945	6,451,132
	Total	11,928	24,288,305

#### 23. Actuarial Certification

I am a Principal and Consulting Actuary for Milliman, Inc. and retained by MedAmerica to render an opinion with regard to long-term care insurance rates. I am a member of the American Academy of Actuaries. I meet the Academy's qualification standards to render this actuarial opinion and am familiar with the requirements for filing long-term care insurance premiums and rate increases.

This memorandum has been prepared in conformity with all applicable Actuarial Standards of Practice, including Actuarial Standards of Practice No. 8, "Regulatory Filings for Health Benefits, Accident and Health Insurance, and Entities Providing Health Benefits" and 18, "Long-Term Care Insurance".

I hereby certify that, to the best of my knowledge and judgment, this rate submission is in compliance with the applicable laws and regulations of this jurisdiction and the rules of this department of insurance.

In my opinion, the rates are not excessive or unfairly discriminatory, and bear reasonable relationship to the benefits based on the loss ratio standards of this jurisdiction.

This filing will enhance premium adequacy, but may not be sufficient to prevent future rate action. Additional rate increases are needed to certify that rates will remain stable under moderately adverse conditions.

In forming my opinion, I have used actuarial assumptions and actuarial methods (which gave consideration to policy design, underwriting, and claim adjudication) and such tests of the actuarial calculations as I considered necessary. Based on these assumptions, or statutory requirements where necessary, this premium rate filing is in compliance with the loss ratio standards of this jurisdiction.

I have relied on data and information provided by MedAmerica to develop this memorandum, including but not limited to management's view of when a rate change may be considered, policy design, underwriting and claim adjudication process, seriatim in-force data, claim data, and the company's long-term earnings rate. I have not audited or independently verified the data and information provided, but have reviewed it for reasonableness.

The basis for contract reserves has been previously filed and there is no anticipation of any changes.

Missy Gordon, FSA, MAAA Principal and Consulting Actuary

Date: January 28, 2020

# Exhibit I-a MedAmerica and Affinity Partners Actual and Projected Experience using Current Assumptions by Calendar Year Nationwide Experience Before Requested Rate Increase Series 11 and Prior Policy Forms

С	Calendar	A	Without Interest B	C = B / A	D.		ith Max. Val. Intere	
С		A	В	C = B / A				
С		1				_	Г	G=F/E
		Earma-l	Incurred -	Inc	End of V	Earna-l	Incurre -	In accorded
		Earned	Incurred Claims	Incurred	End of Year	Earned Premium	Incurred Claims	Incurred Loss Ratio
	Year 1992	Premium 17,324	Claims	Loss Ratio 0%	Lives 111	71,586	Claims 0	LOSS RATIO 0%
	1993	557,528	112,031	20%	634	2,000,739	390,130	19%
I	1994	1,500,482	28,415	2%	1,376	5,000,457	93,904	2%
	1995	2,485,029	109,652	4%	1,943	7,615,872	328,779	4%
	1996	3,452,114	134,262	4%	2,631	9,767,306	363,261	4%
	1997	4,257,921	258,439	6%	2,884	11,351,783	722,059	6%
	1998	5,071,109	631,867	12%	3,447	12,825,438	1,628,343	13%
	1999	6,457,482	1,469,714	23%	4,511	15,508,468	3,549,679	23%
	2000	8,508,577	1,172,992	14%	5,902	19,440,203	2,747,609	14%
	2001	11,453,720	2,031,477	18%	8,144	24,936,673	4,502,841	18%
Historical	2002 2003	15,617,243	4,129,889	26% 16%	11,144 17,381	32,444,884	8,685,044	27% 16%
Experience	2003	20,978,007 26,599,004	3,320,983 6,241,153	23%	18,793	41,633,941 50,454,166	6,624,075 11,880,541	24%
Experience	2005	28,082,605	6,804,563	24%	19,928	50,952,747	12,396,414	24%
	2006	28,353,106	7,236,076	26%	19,787	49,161,822	12,600,226	26%
	2007	27,938,251	10,582,193	38%	19,852	46,299,524	17,627,243	38%
	2008	27,419,750	8,154,815	30%	19,654	43,441,448	12,987,481	30%
	2009	26,498,424	11,148,740	42%	19,200	40,159,832	16,973,198	42%
	2010	25,187,102	15,825,758	63%	18,231	36,523,397	23,059,195	63%
	2011	24,281,006	13,405,255	55%	17,415	33,692,333	18,672,749	55%
	2012	24,895,541	15,249,799	61%	17,350	33,048,891	20,307,361	61%
	2013	24,058,770	14,358,025	60%	17,027	30,558,715	18,310,572	60%
	2014 2015	22,186,152	22,522,172	102% 112%	16,579	26,966,223	27,465,201	102%
	2015	21,244,350 20,937,096	23,851,868 21,675,244	104%	15,985 15,787	24,717,000 23,318,481	27,822,720 24,194,874	113% 104%
	2017	20,937,090	26,052,673	130%	14,983	21.376.772	27,828,292	130%
	2018	19,402,841	22,741,293	117%	14,061	19,825,357	23,246,594	117%
	2019	19,461,729	23,166,382	119%	13,223	19,046,859	22,663,374	119%
	2020	20,023,354	24,310,398	121%	12,791	18,772,373	22,761,834	121%
	2021	19,960,826	25,929,465	130%	12,374	17,926,967	23,237,065	130%
	2022	19,244,457	27,606,346	143%	11,953	16,557,537	23,680,567	143%
	2023	18,022,232	29,248,218	162%	11,530	14,857,331	24,016,145	162%
	2024	16,784,794	30,964,045	184%	11,105	13,260,358	24,339,070	184%
	2025 2026	15,749,200	32,634,889	207%	10,677	11,924,406	24,557,985	206% 230%
	2026	14,797,267 13,893,623	34,335,105 36,063,890	232% 260%	10,249 9,820	10,738,339 9,664,199	24,735,968 24,874,838	250% 257%
	2027	12,948,753	37,794,640	292%	9,391	8,632,804	24,959,438	289%
	2029	12,101,915	39,720,881	328%	8,961	7,735,368	25,116,917	325%
Projected	2030	11,279,556	41,803,055	371%	8,529	6,913,386	25,312,175	366%
Future	2031	10,478,341	43,781,499	418%	8,098	6,159,321	25,388,448	412%
Experience	2032	9,698,877	45,604,621	470%	7,668	5,468,594	25,329,694	463%
(60 Years)	2033	8,944,821	47,259,042	528%	7,240	4,838,617	25,144,496	520%
	2034	8,217,305	48,728,464	593%	6,816	4,265,396	24,838,873	582%
	2035	7,518,460	50,019,525	665%	6,397	3,745,671	24,430,408	652%
	2036	6,849,695	50,963,449	744%	5,984	3,275,962	23,853,424	728%
	2037	6,212,521	51,631,979	831%	5,580	2,853,014	23,162,115	812%
	2038 2039	5,608,663 5,039,480	51,918,869 51,851,015	926% 1,029%	5,186 4,803	2,473,833 2,135,418	22,326,970 21,378,486	903% 1,001%
	2040	4,505,718	51,385,071	1,140%	4,433	1,834,689	20,316,530	1,107%
	2041	4,008,043	50,533,445	1,261%	4,078	1,568,740	19,162,537	1,222%
	2042	3,547,029	49,280,312	1,389%	3,739	1,334,824	17,926,898	1,343%
	2043	3,122,927	47,722,022	1,528%	3,417	1,130,272	16,655,051	1,474%
	2044	2,735,381	45,977,314	1,681%	3,113	952,403	15,395,863	1,617%
	2045	2,383,539	44,019,092	1,847%	2,827	798,594	14,144,510	1,771%
	2046	2,066,383	41,893,055	2,027%	2,560	666,394	12,918,808	1,939%
	2047	1,782,510	39,549,395	2,219%	2,313	553,452	11,706,409	2,115%
	2048	1,530,278	37,106,161	2,425%	2,084	457,561	10,542,401	2,304%
	049-2053	4,828,594	147,543,946	3,056%	7,616	1,308,835	37,397,043	2,857%
	054-2058	2,009,833	89,396,634	4,448%	4,321	454,138	18,567,312	4,088% 5,651%
	059-2063 064-2068	771,465 273,986	48,141,856 23,286,328	6,240% 8,499%	2,358	146,078 43,909	8,255,114 3,339,224	5,651% 7,605%
	069-2073	90,253	23,286,328 9,915,979	10,987%	1,183 504	43,909 12,401	1,208,539	7,605% 9,746%
	074-2078	28,115	3,765,851	13,394%	165	3,346	402,512	12,029%
	3.4-2010	20,113	3,703,031	10,004 /0	103	3,340	702,012	12,02970
History	,	447,481,595	239,249,349	53%	324,740	713,094,057	325,008,384	46%
Future		296,519,925	1,554,852,239	524%	233,084	202,511,389	714,047,042	353%
Lifetime		744,001,520	1,794,101,587	241%	557,824	915,605,446	1,039,055,426	113%

Actuarial Memorandum Exhibits

# Exhibit I-b MedAmerica and Affinity Partners Actual and Projected Experience using Current Assumptions by Calendar Year Nationwide Experience After Requested Rate Increase Series 11 and Prior Policy Forms

					oss Ratio Demonstration With Max. Val. Interest				
		Α Ι	Without Interest B	C = B / A	D	E V	ith Max. Val. Intere	G = F / E	
		^	ь	C-B/A	D	_	'	G-I/L	
	Calendar	Earned	Incurred	Incurred	End of Year	Earned	Incurred	Incurred	
	Year	Premium	Claims	Loss Ratio	Lives	Premium	Claims	Loss Ratio	
	1992 1993	17,324	112.021	0% 20%	111 634	71,586	200 120	0%	
	1993	557,528 1,500,482	112,031 28,415	20%	1,376	2,000,739 5,000,457	390,130 93,904	19% 2%	
	1995	2,485,029	109,652	4%	1,943	7,615,872	328,779	4%	
	1996	3,452,114	134,262	4%	2,631	9,767,306	363,261	4%	
	1997	4,257,921	258,439	6%	2,884	11,351,783	722,059	6%	
	1998	5,071,109	631,867	12%	3,447	12,825,438	1,628,343	13%	
	1999 2000	6,457,482 8,508,577	1,469,714 1,172,992	23% 14%	4,511 5,902	15,508,468 19,440,203	3,549,679 2,747,609	23% 14%	
	2000	11,453,720	2,031,477	18%	8,144	24,936,673	4.502.841	18%	
	2002	15,617,243	4,129,889	26%	11,144	32,444,884	8,685,044	27%	
Historical	2003	20,978,007	3,320,983	16%	17,381	41,633,941	6,624,075	16%	
Experience	2004	26,599,004	6,241,153	23%	18,793	50,454,166	11,880,541	24%	
	2005	28,082,605	6,804,563	24%	19,928	50,952,747	12,396,414	24%	
	2006 2007	28,353,106 27,938,251	7,236,076 10,582,193	26% 38%	19,787 19,852	49,161,822 46,299,524	12,600,226 17,627,243	26% 38%	
	2007	27,419,750	8,154,815	30%	19,654	43,441,448	12,987,481	30%	
	2009	26,498,424	11,148,740	42%	19,200	40,159,832	16,973,198	42%	
	2010	25,187,102	15,825,758	63%	18,231	36,523,397	23,059,195	63%	
	2011	24,281,006	13,405,255	55%	17,415	33,692,333	18,672,749	55%	
	2012	24,895,541	15,249,799	61%	17,350	33,048,891	20,307,361	61%	
	2013 2014	24,058,770	14,358,025 22,522,172	60% 102%	17,027 16.579	30,558,715	18,310,572	60%	
	2014	22,186,152 21,244,350	23,851,868	112%	15,985	26,966,223 24,717,000	27,465,201 27,822,720	102% 113%	
	2016	20,937,096	21,675,244	104%	15,787	23,318,481	24,194,874	104%	
	2017	20,041,062	26,052,673	130%	14,983	21,376,772	27,828,292	130%	
	2018	19,402,841	22,741,293	117%	14,061	19,825,357	23,246,594	117%	
	2019	19,461,729	23,166,382	119%	13,223	19,046,859	22,663,374	119%	
	2020 2021	21,028,877 26,718,828	24,115,818 24,489,540	115% 92%	12,481 11,712	19,714,196 23,993,621	22,579,673 21,946,524	115% 91%	
	2021	27,808,039	25,587,353	92%	11,247	23,920,585	21,948,323	92%	
	2023	26,614,312	26,970,078	101%	10,850	21,932,348	22,145,141	101%	
	2024	24,752,840	28,506,186	115%	10,456	19,545,989	22,406,633	115%	
	2025	23,209,713	30,009,496	129%	10,059	17,562,797	22,581,834	129%	
	2026 2027	21,781,664 20,424,550	31,545,294 33,109,254	145% 162%	9,662 9,263	15,795,851	22,725,505 22,836,172	144% 161%	
	2027	19,000,953	34,682,673	183%	9,263 8,864	14,195,376 12,655,542	22,903,437	181%	
	2029	17,730,458	36,442,568	206%	8,464	11,320,614	23,042,884	204%	
Projected	2030	16,498,332	38,353,413	232%	8,062	10,099,544	23,222,162	230%	
Future	2031	15,299,698	40,177,019	263%	7,660	8,980,972	23,296,831	259%	
Experience	2032	14,135,706	41,861,724	296%	7,259	7,958,039	23,249,205	292%	
(60 Years)	2033 2034	13,012,186 11,930,887	43,398,250 44,769,339	334% 375%	6,859 6,462	7,026,931 6,181,540	23,088,465 22,818,574	329% 369%	
	2034	10,895,062	45,980,932	422%	6,070	5,416,880	22,455,353	415%	
	2036	9,906,729	46,879,281	473%	5,683	4,727,570	21,938,904	464%	
	2037	8,967,801	47,525,286	530%	5,304	4,108,466	21,316,513	519%	
	2038	8,080,529	47,822,070	592%	4,933	3,554,862	20,561,393	578%	
	2039	7,246,672	47,791,286	659%	4,573	3,062,092	19,700,255	643%	
1	2040 2041	6,466,917 5,741,892	47,391,002 46,634,496	733% 812%	4,225 3,890	2,625,339 2,240,098	18,732,331 17,678,321	714% 789%	
	2041	5,072,058	45,503,796	897%	3,570	1,902,118	16,546,675	870%	
	2043	4,457,419	44,094,637	989%	3,265	1,607,296	15,382,042	957%	
	2044	3,897,157	42,511,563	1,091%	2,977	1,351,566	14,227,755	1,053%	
	2045	3,389,733	40,726,538	1,201%	2,707	1,130,962	13,078,586	1,156%	
	2046	2,933,440	38,778,559	1,322%	2,454	941,813	11,950,229	1,269%	
	2047 2048	2,525,951 2,164,677	36,617,776 34,361,464	1,450% 1,587%	2,219 2,002	780,594 644,027	10,830,552 9,754,653	1,387% 1,515%	
	2049-2053	6,797,971	136,732,902	2,011%	7,336	1,832,230	34,623,260	1,890%	
	2054-2058	2,801,171	82,944,154	2,961%	4,186	628,240	17,212,037	2,740%	
	2059-2063	1,059,333	44,783,676	4,228%	2,296	198,772	7,673,173	3,860%	
	2064-2068	368,675	21,783,421	5,909%	1,156	58,532	3,119,817	5,330%	
	2069-2073	119,182	9,321,449	7,821%	493	16,244	1,133,348	6,977%	
	2074-2078	36,840	3,529,658	9,581%	161	4,355	376,018	8,634%	
Histo	ry	447,481,595	239,249,349	53%	324,740	713,094,057	325,008,384	46%	
Futur		412,337,977	1,438,898,333	349%	222,083	276,762,859	661,745,953	239%	
Lifetin	me	859,819,573	1,678,147,682	195%	546,823	989,856,916	986,754,337	100%	

Actuarial Memorandum Exhibits

# Exhibit II Demonstration that the Requested Cumulative Rate Increase Passes the 58%/85% Loss Ratio Minimum MedAmerica and Affinity Partners' Nationwide Experience with Prior Approved Increases Series 11 and Prior Policy Forms

Accumulated value of initial earned premium	676,779,261 x	58%	=	392,531,972					
2a Accumulated value of earned premium 2b Accumulated value of prior premium rate schedule increases (2a - 1)	713,094,057 36,314,795 x	85%	=	30,867,576					
2b Accumulated value of prior premium rate scriedule increases (2a - 1)	30,314,793 X	03 /0	_	30,867,376					
3 Present value of future projected initial earned premium	91,246,289 x	58%	=	52,922,848					
4a Present value of future projected premium	276,762,859								
4b Present value of future projected premium in excess of the projected initial earned premiums (4a - 3)	185,516,570 x	85%	=	157,689,084					
5 Lifetime Earned Premium Times Prescribed Factor: Sum of 1, 2b, 3, and 4b				634,011,480					
6a Accumulated value of incurred claims without the inclusion of active life reserves				325,008,384					
6b Present value of future projected incurred claims without the inclusion of active life reserves				761,007,847					
7 Lifetime Incurred Claims with Rate Increase: Sum 6a and 6b				1,086,016,230					
8 Test: 7 is not less than 5				Pass					
All values are accumulated or discounted at the maximum valuation interest rate for contract reserves applicable for the year of issue, which ranges for	om 3.5% to 5.5%.								
Future projected initial earned premium schedule (i.e., without the requested rate increase) reflects the assumed impact of CBUL and RBO.									
The future projected incurred claims (item 6b) were increased by 15% to reflect assumptions with moderately adverse experience.									

Actuarial Memorandum Exhibits

Current Assumptions	Series 11 and Prior			
Original Assumptions	Prior to Series 11			
	Series 11			

#### Morbidity

Expected claim costs are developed using the 2014 Milliman Long-Term Care Guidelines (Guidelines) with adjustments for underwriting selection, all-lives exposure basis, and four years of retrospective improvement to bring the Guidelines forward to 2018. The claim costs were further adjusted based on historical claim experience by policy form cohort, attained age, duration, individual vs. group, payment type, and coverage type, to the extent credible. These adjustment factors can be found in Exhibit A-5a of Appendix A of the actuarial memorandum.

For Series 5, the original pricing expected nursing home incidence rates and continuance tables were developed from a number of sources, but primarily using data published by the Connecticut Department of Health Services. The 1985 National Nursing Home Survey was also used. Selected frequencies were adjusted up for up to the first 12 years following issue to reflect the favorable morbidity expected as a result of the underwriting process. Frequency and length of treatment of the home care and adult day care benefit were based on the 1982 National Long-Term Care Survey. They are adjusted to reflect the effects of elimination periods, policy maximums, and eligibility standards.

For Series 8 and 9, the Institutional Benefit rates were developed using source data from the 1977 and 1985 National Nursing Home Surveys. The Home and Community Benefits were developed using source data from the 1989 National Long-Term Care Survey. Adjustments were made to the source data to reflect the selection effect of underwriting and the non-duplication of benefits with other payment sources.

The original pricing expected nursing home and home care incidence rates and continuance tables were taken from the 1997 *Guidelines* and adjusted for MedAmerica's experience available at the time this rate schedule was developed relative to the *Guidelines*. All values were adjusted to reflect the effects of product types, elimination periods, policy maximums, and the eligibility standards.

Current Assumptions	Series 11 and Prior
Original	Prior to Series 11
Assumptions	Series 11 Individual
	Series 11 Group

#### Mortality

Mortality rates reflect the 2012 Individual Annuitant Mortality (IAM) Basic table. The mortality rates were adjusted based on historical mortality experience by gender, marital status, attained age, and duration. The adjusted 2012IAM table was then brought forward to 2018 using the 2012IAM attained age mortality improvement scale (i.e., G2 projection scale). These adjustment factors can be found in Exhibit A-1a and A-1c of Appendix A of the actuarial memorandum.

Series 5 policy forms used the 1965-70 US Society of Actuaries Basic Mortality Table without selection.

Series 8 and Series 9 policy forms used the 1980 Commissioners Standard Ordinary Basic Mortality Tables assuming a gender mix of 60% female and 40% male and without selection.

1980 Commissioners Standard Ordinary Basic Mortality Table.

Premier Group policy forms use the 1980 Commissioners Standard Ordinary Basic Mortality Table. TNSE policy forms use the 1983 GAM Static table.

# Current Assumptions Series 11 and Prior

#### Lapse Rates

Voluntary lapse rates (excludes benefit expiry) vary by policy duration (ultimate for 10+), attained age (ultimate for 65+), benefit period (lifetime or non-lifetime), inflation protection (auto inflation or none), marital status, policy form cohort, and premium payment option. A summary of the ultimate lapse rates by key characteristics for lifetime-pay policies can be found in Section 6 of the actuarial memorandum.

For the ten-pay option, a reduction of 65% of the durational lapse rates is assumed for durations one through four, a reduction of 70% of the durational lapse rates is assumed for durations five through eight, and 0% lapse thereafter. For the twenty-pay option, a reduction of 50% of the durational lapse rates is assumed for durations one through eight, a reduction of 75% of the durational lapse rates is assumed for durations nine through fifteen, and 0% lapse thereafter.

#### Lapse Rates

Lapse rates vary by policy form series, duration, premium payment option, and issue age.

	Series 5 Lapse Rates										
						Issue Age					
Duration	<61	61	62	63	64	65	66	67	68	69	70+
1	20.00%	19.00%	18.00%	17.00%	16.00%	15.00%	14.00%	13.00%	12.00%	11.00%	10.00%
2	15.00%	14.00%	13.00%	12.00%	11.00%	10.00%	9.00%	8.00%	7.00%	6.00%	5.00%
3	10.00%	9.40%	8.80%	8.20%	7.60%	7.00%	6.40%	5.80%	5.20%	4.60%	4.00%
4	8.00%	7.60%	7.20%	6.80%	6.40%	6.00%	5.60%	5.20%	4.80%	4.40%	4.00%
5	6.00%	5.70%	5.40%	5.10%	4.80%	4.50%	4.20%	3.90%	3.60%	3.30%	3.00%
6	5.00%	4.80%	4.60%	4.40%	4.20%	4.00%	3.80%	3.60%	3.40%	3.20%	3.00%
7	5.00%	4.80%	4.60%	4.40%	4.20%	4.00%	3.80%	3.60%	3.40%	3.20%	3.00%
8	5.00%	4.80%	4.60%	4.40%	4.20%	4.00%	3.80%	3.60%	3.40%	3.20%	3.00%
9+	5.00%	4.70%	4.40%	4.10%	3.80%	3.50%	3.20%	2.90%	2.60%	2.30%	2.00%

Series 8 Lapse Rates								
	Issue Age							
Duration	1 <85 85+							
1	15.00%	12.00%						
2	10.00%	8.00%						
3	8.00%	6.40%						
4	6.00%	4.80%						
5+	5.00%	4.00%						

	Series 9 Lapse Rates										
		Issue Age									
Duration	<76	76	77	78	79	80	81	82	83	84	85+
1	15.00%	14.70%	14.40%	14.10%	13.80%	13.50%	13.20%	12.90%	12.60%	12.30%	12.00%
2	10.00%	9.80%	9.60%	9.40%	9.20%	9.00%	8.80%	8.60%	8.40%	8.20%	8.00%
3	8.00%	7.84%	7.68%	7.52%	7.36%	7.20%	7.04%	6.88%	6.72%	6.56%	6.40%
4	6.00%	5.88%	5.76%	5.64%	5.52%	5.40%	5.28%	5.16%	5.04%	4.92%	4.80%
5+	5.00%	4.90%	4.80%	4.70%	4.60%	4.50%	4.40%	4.30%	4.20%	4.10%	4.00%

Policy Form Series 8 and 9 issued business under a group trust in a small number of jurisdictions. The original pricing assumptions for claim costs, mortality, and interest did not vary between individual and group trust business but the original pricing voluntary termination rates did. The Series 8 and 9 group trust original pricing voluntary termination rates are shown in the following table:

	Series 8 and 9 Group Trust									
					Issue	Age				
Duration	<25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65+
1	16.00%	15.00%	13.50%	12.00%	11.00%	10.00%	8.00%	6.00%	4.00%	3.00%
2	11.00%	10.00%	8.50%	7.00%	7.00%	7.00%	5.50%	4.50%	3.50%	3.00%
3	7.00%	6.00%	6.00%	6.00%	6.00%	6.00%	5.00%	4.50%	3.00%	2.00%
4	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	4.50%	3.00%	2.00%
5	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	4.50%	3.00%	2.00%
6	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	4.50%	3.00%	2.00%
7 +	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%

The original pricing voluntary lapse rates were expected to be 0.0% for durations 10 and later for policyholders who selected the 10-pay option.

Original Assumptions Prior to Series 11

#### Lapse Rates

Lapse rates vary by duration, premium payment option, and issue age. Lapse rates for the lifetime payment option are provided in the tables below for Series 11 Individual, Premier Group, and TNSE policy forms.

Series 11 Individual										
		Lapse Rates by Issue Age								
Duration	<60	<60   60-64   65-69   70-74   75-79   80+								
1	10.00%	11.00%	12.00%	12.00%	12.00%	12.00%				
2	7.00%	7.00%	7.00%	6.00%	4.00%	2.00%				
3	5.00%	4.00%	3.00%	3.00%	3.00%	2.00%				
4	3.00%	3.00%	2.00%	2.00%	2.00%	2.00%				
5	3.00%	2.00%	2.00%	2.00%	2.00%	2.00%				
6+	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%				

Premier Group										
		Lapse Rates by Issue Age								
Duration	<60	<60   60-64   65-69   70-74   75-79   80+								
1	10.00%	11.00%	12.00%	12.00%	12.00%	12.00%				
2	7.00%	7.00%	7.00%	6.00%	4.00%	2.00%				
3	5.00%	4.00%	3.00%	3.00%	3.00%	2.00%				
4	3.00%	3.00%	2.00%	2.00%	2.00%	2.00%				
5	3.00%	2.00%	2.00%	2.00%	2.00%	2.00%				
6+	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%				

	TNSE									
		Lapse Rates by Issue Age								
Duration	<60	60-64	65-69	70-79	80+					
1	5.00%	5.00%	5.00%	4.00%	3.00%					
2	5.00%	5.00%	5.00%	4.00%	3.00%					
3	5.00%	4.00%	3.00%	3.00%	3.00%					
4	4.00%	4.00%	3.00%	3.00%	3.00%					
5	4.00%	3.00%	3.00%	3.00%	3.00%					
6+	3.00%	3.00%	3.00%	3.00%	3.00%					

For the 10-pay option, a reduction of 50% of these lapse rates is assumed for durations 1 to 6, and 0% lapse thereafter. For the 20-pay option, a reduction of 50% of these lapse rates is assumed for durations 1 to 13, and 0% lapse thereafter.

Original Ser

Series 11

Current Assumptions	Series 11 and Prior
Original Assumptions	Series 11 and Prior

#### **Benefit Expiry Rates**

Benefit expiry rates reflect assumed policy termination due to exhaustion of benefits on limited benefit period policies. The rates are based on the 2017 *Guidelines* with adjustments for historical benefit expiry experience and vary by gender, benefit period, and attained age. A table containing the benefit expiry rates is provided in Section 6 of the actuarial memorandum.

Benefit expiry was not separated from the lapse assumption.

Current Assumptions	Series 11 and Prior
	Prior to Series 11
Original Assumptions	Series 11 Individual
	Series 11 Group

#### Interest Rate

The current most-likely earnings rate assumption is 4.75%. This rate represents MedAmerica's expectation of its long-term investment earnings rate based on the average net investment earnings rate projected for MedAmerica's 2018 cash flow testing.

The maximum valuation interest rate applicable to the year of issue ranges from 3.5% to 5.5% and averages 4.5%.

Series 5 policy forms used an original pricing earnings rate assumption of 7.10% and Series 8 and 9 policy forms used an original pricing earnings rate assumption of 7.50%.

An original pricing earnings rate assumption of 7.50% was assumed.

Premier Group policy forms used an original pricing earnings rate assumption of 7.50% and TNSE policy forms used an original pricing earnings rate assumption of 6.00%.

Current Assumptions	Series 11 and Prior
Original Assumptions	Series 11 and Prior

#### Improvement

Annual improvement in the mortality and morbidity assumptions is assumed for 10 years starting in 2019. Annual mortality improvement factors vary by attained age and gender based on the G2 improvement scale from the 2012IAM table. Annual morbidity improvement is assumed to be 1.0%.

No mortality or morbidity improvement was assumed.

This appendix describes the development of and justification for the current actuarial assumptions used in this filing.

The persistency and morbidity assumptions were developed using historical experience and predictive analytics. Where actual experience was limited or did not exist, industry experience and actuarial judgment was also used. The experience used to develop these assumptions includes historical experience of MedAmerica Insurance Company (MAPA); MAPA's two sister companies, MedAmerica Insurance Company of Florida (MAFL) and MedAmerica Insurance Company of New York (MANY) (MAPA, MAFL, and MANY collectively referred to as MedAmerica); and MedAmerica's affinity partners that issued the same products. Additionally, experience on other blocks of business originally issued by MedAmerica and its affinity partners, and MedAmerica's other acquired blocks of business is also used. For persistency, policy termination experience from January 2008 through December 2017, with runout through March 2018, was used. For morbidity, claim experience from January 2004 through June 2016 was used with six months of runout.

Improvement assumptions for mortality and morbidity were developed based on individual annuitant or industry experience, along with actuarial judgment. The rate increase dependent assumptions were developed using historical experience, and actuarial judgment where experience was limited or did not exist.

The sections that follow provide more detail on the development of and justification for the current assumptions that are material to the projections in this filing.

#### Persistency

The policy persistency assumptions were developed based on detailed historical experience from January 2008 through December 2017, with runout through March 2018, for MedAmerica's organic (including affinity partners) and acquired business. Experience adjustment factors were developed using predictive analytics as described in the Predictive Analytics section below.

#### Mortality

The mortality assumption utilizes the 2012 Individual Annuitant Mortality (IAM) Basic table with experience adjustments.

Exhibit A-1 supports the mortality assumption and provides the following information by marital status, gender, issue era (old versus new), policy duration, and attained age. Policies issued prior to January 1, 1998 are treated as "old" and policies issued on or after January 1, 1998 are treated as "new". Prior to Series 11 policies are considered part of the "old" era bucket as the majority of policies were issued prior to January 1, 1998. Series 11 Individual and Group policies are considered part of the "new" era bucket as the majority of policies were issued on or after January 1, 1998.

- Exhibit A-1a Provides the adjustment factors that are to be applied to the 2012IAM hazard rates; the adjusted hazard rates are converted back into mortality probabilities to create the mortality assumption produced by the predictive model. Attained age adjustment factors are applicable to only policy durations 7 and later.
- Exhibit A-1b Provides a summary of actual-to-modeled (A:M) mortality experience for all products of MedAmerica and its affinity partners, and MedAmerica's other acquired blocks of business.
  - Policy year exposure [A] reflects the length of time a covered life is exposed to the risk of death (i.e., exact exposure basis).
  - Actual deaths [B]
  - Mortality probabilities underlying actual experience [C], 2012IAM [D], and the modeled assumption [E]. The modeled mortality probabilities capture the adjustment factors from Exhibit A-1a that were produced by the predictive model. Mortality probabilities were calculated by first calculating the hazard rate of mortality, then transforming into a probability. For example, the actual mortality probability [C] = 1 EXP(-( [B] / [A] )).
  - A:M ratios are calculated as actual mortality probabilities to the 2012IAM mortality probabilities [F] and to the modeled assumption [G]. The modeled A:M [G] provides an indication of fit. This fit will not be perfect (i.e., ratios deviate from 1.0) because the main goal is to develop an assumption that generalizes well to new data by balancing assumption complexity and fit on the historical experience.

Exhibit A-1c – Provides an additional attained age adjustment that was developed to better align the composite termination (i.e., mortality and voluntary lapse combined) assumption with actual experience. Similar to the attained age adjustment factors in Exhibit A-1a, the additional adjustments are applicable to only policy durations 7 and later. The adjustment from Exhibit A-1c is excluded from Exhibit A-1b, but it is included with the composite termination assumptions in Exhibit A-3 described below.

For projection purposes, the adjusted 2012IAM table is brought forward to 2018 using the G2 improvement scale.

Lifetime-Pay Voluntary Lapse Assumption

The voluntary lapse assumption reflects the 2017 cash flow testing voluntary lapse assumption with experience adjustments for attained age, benefit period (lifetime or non-lifetime), inflation protection option (auto inflation or none), marital status, and product cohort.

The attained age adjustment factors developed from the predictive model produced a U-shaped pattern (i.e., decreased and then increased) by attained age. However, the attained age adjustment factors are held constant for ages 65 and older to produce an ultimate voluntary lapse assumption that is constant rather than increasing by attained age. The adjustments are held constant after this point because an increasing attained age lapse trend is not widely used in the industry, and this increasing lapse trend may be due to miscoding a death or underreporting of deaths in the Social Security Death Master File. An additional attained age adjustment to mortality was developed (Exhibit A-1c) in order to capture these terminations (i.e., higher lapses at older attained ages) such that the combined mortality and voluntary lapse assumption better aligns with actual experience as described in Exhibit A-3 below.

The ultimate voluntary lapse probabilities are shown in Section 6 of the actuarial memorandum. These ultimate voluntary lapse probabilities are applicable for attained ages 65 and older at policy durations 10 and later. Only these ultimate voluntary lapse probabilities are material to the projections given the age of this cohort.

Exhibit A-2 supports the voluntary lapse assumption. It provides a comparison of A:M voluntary lapse experience for all products of MedAmerica and its affinity partners, and MedAmerica's other acquired blocks of business, and includes the following:

- Policy year exposure [A] reflects the length of time a covered life is exposed to the risk of lapse (i.e., exact exposure basis).
- Actual lapses [B]
- o Lapse probabilities underlying actual experience [C], unadjusted [D], and the modeled assumption [E]. The modeled voluntary lapse probabilities capture the assumptions produced by the predictive model (i.e., include the U-shaped attained age adjustments) to demonstrate the fit of the predictive model. The attained-age cap is captured with the composite termination assumptions in Exhibit A-3 as described below. Lapse probabilities were calculated by first calculating the hazard rate of lapse, then transforming into a probability. For example, the actual lapse probability [C] = 1 EXP(-( [B] / [A] )).
- o A:M ratios are calculated as actual lapse probabilities to the unadjusted lapse probabilities [F] and the modeled assumption [G]. The modeled A:M [G] provides an indication of fit. This fit will not be perfect (i.e., ratios deviate from 1.0) because the main goal is to develop an assumption that generalizes well to new data by balancing assumption complexity and fit on the historical experience.

The experience underlying Exhibit A-2 reflects lifetime-pay policies for policy durations 10 and later to focus on the fit of the ultimate voluntary lapse assumption and excludes "shock" lapses. For certain policies there have been prior rate increases and thus the option to lapse with a contingent benefit (i.e., shock lapse). Additionally, some policy forms offered an optional shortened non-forfeiture benefit. Policies that elected one of these options were not counted as a voluntary lapse; however, their annual policy exposure was valued up to the date of election.

#### Limited-Pay Voluntary Lapse Assumption

For the limited-pay options, the voluntary lapse assumption is a function of the lifetime-pay voluntary lapse assumption and is similar to that used in original pricing. The smoothed lapse rates are a scalar of the lifetime-pay lapse rates. Approximately 4% of the in-force policies have a limited-pay option that will be subject to the voluntary lapse assumption after the first five years of the projection because they will not yet be paid-up due to the length of

the payment option for these policies. As a result, the impact of the limited-pay voluntary lapse assumptions on the projections is assumed to be immaterial.

For the ten-pay and twenty-pay options, the scalars were developed from a comparison of the lifetime-pay derived lapse rates to the limited-pay option's derived lapse rates based on MedAmerica and its affinity partners' experience on all products combined. The relationships derived from this analysis were used to develop the smoothed lapse assumptions as shown in Section 6 of the actuarial memorandum.

#### Composite Termination

Exhibit A-3 supports the composite termination (i.e., mortality and voluntary lapse combined) assumption. It provides a comparison of actual-to-expected (A:E) composite termination experience for all products of MedAmerica and its affinity partners, and MedAmerica's other acquired blocks of business, and includes the following:

- Policy year exposure [A] reflects the length of time a covered life is exposed to the risk of termination (i.e., exact exposure basis).
- Actual composite terminations [B]
- Composite termination probabilities underlying actual experience [C] and the expected assumption [D]. The expected composite termination probabilities capture all of the experience adjustments for mortality (i.e., Exhibits A-1a and A-1c) and voluntary lapse (i.e., attained age cap). Termination probabilities were calculated by first calculating the hazard rate of termination, then transforming into a probability. For example, the actual termination probability [C] = 1 EXP(-( [B] / [A] )).
- A:E ratios are calculated as actual termination probabilities to the expected composite termination probabilities [E]. The A:E [E] provides an indication of fit. This fit will not be perfect (i.e., ratios deviate from 1.0) because the main goal is to develop an assumption that generalizes well to new data by balancing assumption complexity and fit on the historical experience.

The experience underlying Exhibit A-3 reflects lifetime-pay policies for policy durations 10 and later to focus on the fit of the ultimate composite termination assumption. It also excludes "shock" lapses as described above for Exhibit A-2.

#### Benefit Expiry

Benefit expiry probabilities reflect assumed policy lapses due to exhaustion of benefits based on the 2017 Milliman *Long-Term Care Guidelines (Guidelines)* with experience adjustments and vary by attained age, gender, and benefit period. Insureds with lifetime benefits do not have an expiry assumption (i.e., probability of 0%). The final benefit expiry assumptions are provided in Section 6 of the actuarial memorandum.

Exhibit A-4 supports the benefit expiry assumption. It provides a comparison of A:E benefit expiry experience for all products of MedAmerica and its affinity partners, and MedAmerica's other acquired blocks of business, and includes the following:

- Policy year exposure [A] reflects the length of time a covered life is exposed to the risk of benefit expiry (i.e., exact exposure basis).
- Actual benefit expiries [B]
- Benefit expiry probabilities underlying actual experience [C], 2017 Guidelines [D], and the expected assumption [E]. The expected benefit expiry probabilities capture the assumptions from Section 6 of the actuarial memorandum. Benefit expiry probabilities were calculated by first calculating the hazard rate of benefit expiry, then transforming into a probability. For example, the actual benefit expiry probability [C] = 1 EXP(-( [B] / [A] )).
- A:E ratios are calculated as actual benefit expiry probabilities to the 2017 *Guidelines* probabilities [F] and the expected assumption [G]. The expected A:E [G] provides an indication of fit. This fit will not be perfect (i.e., ratios deviate from 1.0) because the main goal is to develop an assumption that generalizes well to new data by balancing assumption complexity and fit on the historical experience.

The experience underlying Exhibit A-4 excludes lifetime benefit periods because benefit expiry is not applicable. It also excludes ages less than 65 because the assumed benefit expiry assumption is 0% and actual experience reflects less than 2% of actual expiries. The experience underlying Exhibit A-4 reflects policy durations 7 and later.

#### Morbidity

The claim costs were developed using the 2014 *Guidelines* with experience adjustment factors based on all products of MedAmerica, its affinity partners, and any acquired business from January 2004 through June 2016, with runout through December 2016. The experience adjustment factors were developed using predictive analytics as described in the Predictive Analytics section below.

- Exhibit A-5a provides the adjustment factors that are to be applied to the 2014 Guidelines claim costs for the Series 11 and Prior policy forms.
- Exhibit A-5b provides a summary of A:E experience for the Series 11 and Prior policy forms.
  - Exposure [A] reflects the length of time a covered life is in force (i.e., an exact exposure basis).
  - Actual incurred claim counts [B] and dollars [C] are based on historical claim experience from inception through June 2016, with runout through December 2016. Actual incurred claim dollars were valued as paid claims plus claim reserves. Paid claims and claim reserves were discounted to the year of incurral.
  - o 2014 Guidelines incurred claims [D] are valued as the 2014 Guidelines claim costs multiplied by actual all-lives exposure. The claim costs vary by gender, attained age, policy duration, benefit period, elimination period, payment type, level of home care coverage, inflation type, and coverage type (comprehensive/facility only/home health care only). Policy design, claims adjudication, and degree of underwriting were considered in developing the claim costs.
  - Expected incurred claims [E] are calculated by applying each applicable adjustment from Exhibit A-5a to the 2014 Guidelines incurred claims [D].
  - A:E ratios are calculated as actual incurred claims to the 2014 Guidelines incurred claims [F] and expected incurred claims [G]. The expected A:E [G] provides an indication of fit. This fit will not be perfect (i.e., ratios deviate from 1.0) because the main goal is to develop an assumption that generalizes well to new data by balancing assumption complexity and fit on the historical experience.
- Exhibit A-5c provides information similar to Exhibit A-5b, except provides the experience for all products of MedAmerica and its affinity partners, and MedAmerica's other acquired blocks of business.

Prior to developing the experience adjustment factors, the 2014 *Guidelines* were adjusted for an assumed level of morbidity improvement. The 2014 *Guidelines* claim costs reflect morbidity improvement such that they are as of calendar year 2014. We assume this improvement has also occurred in the actual historical experience. Therefore, a backward or forward projection of morbidity improvement was applied to the expected claim costs on a seriatim basis based on the calendar year in which a given policy's duration fell. An annual improvement level of 1.0% was used in the backward or forward projections.

For projection purposes, the 2014 Guidelines are brought forward to 2018 using 1% improvement.

#### Prospective Improvement

For projected mortality improvement, the G2 improvement scale from the 2012IAM mortality table was used. The G2 improvement scale varies by attained age and gender. It is applied beginning in the first projection year and continues for 10 projection years.

For projected morbidity improvement, a level of 1.0% is assumed for 10 years beginning January 1, 2019. This assumption is set based on the underlying morbidity improvement from the 2014 *Guidelines*. This level is also reasonable based on the Society of Actuaries (SOA) July 2016 study, *Long Term Care Morbidity Improvement Study: Estimates for the Non-Insured U.S. Elderly Population Based on the National Long Term Care Survey 1984-2004.* This study reported population annual morbidity improvement of 2.3% for unisex, 2.5% for males, and 2.1% for females. The SOA July 2016 study uses population data, so it is uncertain how well these findings will translate to an insured population. The SOA June 2011 study, *Global Mortality Improvement Experience and Projection Techniques*, suggests that an annuitant cohort has more mortality improvement over the general population, so it is

possible that this could be true for morbidity as well. Based on these studies, a reasonable range for morbidity improvement is between 0.0% to 2.5% for males and 0.0% to 2.1% for females for 10 to 20 years.

#### Rate Increase Dependent Assumptions

At the time of a rate increase, insureds have options to elect a contingent benefit upon lapse (CBUL) or reduced benefit options (RBO). Adverse selection is assumed relative to CBUL and RBO elections. These insured behavior assumptions are provided in Section 6 of the actuarial memorandum. These assumptions are based on MedAmerica and its affinity partners, and MedAmerica's acquired business's combined actual CBUL and RBO election rate experience and actuarial judgment—particularly at the higher rate increase magnitudes where limited experience exists.

Contingent Benefit Upon Lapse Election

The assumed CBUL election rate is based on the requested rate increase and is applied on a seriatim basis. No CBUL elections are assumed for limited-pay policies.

#### Reduced Benefit Options

We assume that those electing RBO will reduce their benefits so that premiums after the increase are closer to those before the increase. We assume that the percent reduction in premium corresponds to an equivalent percent reduction in claims. We assume an RBO election rate based on the requested rate increase and it is applied on a seriatim basis. No RBO elections are assumed for limited-pay policies.

The reduction to premium and claims then varies based on the level of the rate increase and can then be determined as follows:

Reduction to premium and claims due to the election of RBO

= 1 – (Average premium level after the rate increase with RBO election / Premium level after the full rate increase without any RBO election), where

Average premium level after the rate increase with RBO election

= weighted average premium level of those assumed to elect RBO with those assumed to accept the full rate increase

#### Adverse Selection

The adverse selection assumption is a function of the CBUL and RBO election rates, such that the relative increase to morbidity due to adverse selection varies by the rate increase's magnitude. The increase to morbidity due to adverse selection was developed from the following formula and actuarial judgment. We assume that at the time of the rate increase, insureds that elect a CBUL will be selective in that their relative morbidity is 25% lower than that of the remaining pool. Similarly, we assume that at the time of the rate increase, insureds that elect an RBO will be selective in that their relative morbidity is 12.5% lower than that of the remaining pool.

PoolMorb = AdvSelMorb x (1 - CBUL - RBO) + [(1 - 25%) x AdvSelMorb] x CBUL + [(1 - 12.5%) x AdvSelMorb] x RBO, where

PoolMorb = morbidity of the pool before the rate increase = 1.0

AdvSelMorb = adverse morbidity of the remaining pool after the rate increase due to selective lapses

CBUL = percentage of insureds that elect CBUL RBO = percentage of insureds that elect RBO

Solving the above for the adverse selection component results in the following formula:

Adverse Selection = 1 / (1 - 25% x CBUL - 12.5% x RBO)

#### **Predictive Analytics**

In developing the persistency and morbidity experience adjustment factors, predictive analytics was employed in the form of a penalized generalized linear model (GLM).

A penalized GLM is similar to a traditional GLM. The only difference is that it adds an additional constraint that penalizes the size of the model's coefficients in order to control overfitting the model to the historical data. This penalty placed on the coefficients can be seen as a credibility lever, which controls how much weight is given to the company's actual experience. A high penalty would give no weight to the data, leaving the benchmark assumption (i.e., the 2014 *Guidelines* for morbidity) unadjusted. No penalty would give full weight to the company's actual data potentially making large adjustments to the benchmark, which could be overfitting the actual experience. When using a penalized GLM, it is important to choose a penalty that gives the right amount of weight to the actual data to avoid underfitting or overfitting the experience.

A standard approach for choosing such a penalty is to use a k-fold cross-validation to test a series of penalty values. A k-fold cross-validation splits the data into k subsets and iteratively trains and tests the model independently on each subset of the data. This process gives an estimation of how well a model will generalize to new data that was not used to develop the assumption. Through the k-fold cross-validation we evaluated the impact the penalty had on the model's generalizability by testing a range of 100 penalties. We selected a penalty to balance minimizing the k-fold cross-validation prediction error with the generalizability of the model. This allows for a statistically robust and automated process to determine the amount of weight to give actual experience versus the benchmark assumption.

Exhibit A-1a Mortality Hazard Rate Adjustment Factors All Products

Age         Male         Female           <55         0.99         1.00           55         0.97         0.98           56         0.97         0.98           57         0.95         0.97           58         0.93         0.96           59         0.91         0.93           60         0.89         0.89           61         0.85         0.86           62         0.85         0.86           63         0.84         0.85           64         0.84         0.85           65         0.87         0.84           65         0.87         0.84           65         0.87         0.84           65         0.87         0.84           66         0.88         0.85           0.81         1.01           65         0.87         0.84           66         0.88         0.85           0.81         1.01           66         0.88         0.85           0.81         1.01           67         0.87         0.82           0.81         1.01           0.92         0.	Attained	Ger	Gender		Marital	Status
-555         0.99         1.00         0.99         1.01           55         0.97         0.98         0.95         1.01           56         0.97         0.98         0.95         1.01           57         0.95         0.97         0.93         1.02           58         0.93         0.96         0.91         1.02           59         0.91         0.93         0.89         1.02           60         0.89         0.89         0.88         1.01           61         0.85         0.86         0.85         1.00           62         0.85         0.86         0.85         1.00           63         0.84         0.85         0.80         0.85         1.00           63         0.84         0.85         0.82         1.01         0.00<						
55         0.97         0.98         0.95         1.01           56         0.97         0.98         0.95         1.01           57         0.95         0.97         0.93         1.02           58         0.93         0.96         0.91         1.02           59         0.91         0.93         0.89         1.02           60         0.89         0.89         0.88         1.01           61         0.85         0.86         0.85         1.00           62         0.85         0.86         0.84         1.00           63         0.84         0.85         0.82         1.00           64         0.84         0.84         0.81         1.01           65         0.87         0.84         0.81         1.01           66         0.88         0.85         0.81         1.01           67         0.87         0.82         0.81         1.01           68         0.91         0.82         0.81         1.01           68         0.91         0.82         0.81         1.02           70         0.97         0.85         0.85         1.02						
56         0.97         0.98         0.95         1.01           57         0.95         0.97         0.93         1.02           58         0.93         0.96         0.91         1.02           59         0.91         0.93         0.89         1.02           60         0.89         0.89         1.02           60         0.89         0.89         1.01           61         0.85         0.89         0.88         1.01           61         0.85         0.86         0.84         1.00           62         0.85         0.86         0.84         1.00           63         0.84         0.84         0.81         1.01           65         0.87         0.84         0.81         1.01           66         0.88         0.85         0.81         1.01           67         0.87         0.82         0.81         1.01           68         0.91         0.82         0.81         1.01           68         0.91         0.82         0.82         1.01           69         0.95         0.85         0.84         1.02           71         0.99						
57         0.95         0.97         0.93         1.02           58         0.93         0.96         0.91         1.02           59         0.91         0.93         0.89         1.02           60         0.89         0.89         0.88         1.01           61         0.85         0.86         0.84         1.00           62         0.85         0.86         0.84         1.00           63         0.84         0.85         0.82         1.00           64         0.84         0.81         1.01           65         0.87         0.84         0.81         1.01           66         0.88         0.85         0.81         1.01           67         0.87         0.82         0.81         1.00           68         0.91         0.82         0.81         1.00           68         0.91         0.82         0.82         1.01           69         0.95         0.85         0.85         1.02           71         0.99         0.84         1.02           71         0.99         0.84         1.02           73         1.03         0.85	l .					
58         0.93         0.96         0.91         1.02           59         0.91         0.93         0.89         1.02           60         0.85         0.86         0.85         1.00           61         0.85         0.86         0.85         1.00           62         0.85         0.86         0.84         1.00           63         0.84         0.85         0.82         1.00           64         0.84         0.84         0.81         1.01           65         0.87         0.84         0.81         1.01           66         0.88         0.85         0.81         1.01           67         0.87         0.82         0.81         1.01           68         0.91         0.82         0.81         1.01           69         0.95         0.85         0.84         1.02           70         0.97         0.85         0.85         1.02           71         0.99         0.84         0.86         1.03           72         1.02         0.85         0.87         1.04           73         1.03         0.85         0.89         1.03						
59         0.91         0.93         0.89         1.02           60         0.89         0.89         0.88         1.01           61         0.85         0.86         0.85         1.00           62         0.85         0.86         0.84         1.00           63         0.84         0.85         0.82         1.00           64         0.84         0.84         0.81         1.01           65         0.87         0.84         0.81         1.01           66         0.88         0.85         0.81         1.01           66         0.88         0.85         0.81         1.01           67         0.87         0.82         0.81         1.00           68         0.91         0.82         0.82         1.01           69         0.95         0.85         0.84         1.02           70         0.97         0.85         0.84         1.02           71         0.99         0.84         0.86         1.03           72         1.02         0.85         0.87         1.04           73         1.03         0.85         0.89         1.03						
60         0.89         0.89         0.89         0.88         1.01           61         0.85         0.86         0.85         1.00           62         0.85         0.86         0.84         1.00           63         0.84         0.85         0.82         1.00           64         0.84         0.84         0.81         1.01           65         0.87         0.84         0.81         1.01           66         0.88         0.85         0.81         1.01           67         0.87         0.82         0.81         1.01           67         0.87         0.82         0.81         1.00           68         0.91         0.82         0.82         1.01           69         0.95         0.85         0.84         1.02           71         0.99         0.84         1.02         0.85         1.02           71         0.99         0.84         0.86         1.03           72         1.02         0.85         0.87         1.04           73         1.03         0.85         0.89         1.03           74         1.04         0.85         0.90						
61         0.85         0.86         0.84         1.00           62         0.85         0.86         0.84         1.00           63         0.84         0.85         0.82         1.00           64         0.84         0.84         0.81         1.01           65         0.87         0.84         0.81         1.01           66         0.88         0.85         0.81         1.01           67         0.87         0.82         0.81         1.01           68         0.91         0.82         0.82         1.01           69         0.95         0.85         0.84         1.02           70         0.97         0.85         0.85         1.02           71         0.99         0.84         0.86         1.03           72         1.02         0.85         0.87         1.04           73         1.03         0.85         0.87         1.04           73         1.03         0.85         0.87         1.04           75         1.05         0.86         0.91         1.04           76         1.08         0.87         0.92         1.04						
62         0.85         0.86         0.84         1.00           63         0.84         0.85         0.82         1.00           64         0.84         0.81         1.01           65         0.87         0.84         0.81         1.01           66         0.88         0.85         0.81         1.01           67         0.87         0.82         0.81         1.01           68         0.91         0.82         0.82         1.01           69         0.95         0.85         0.84         1.02           70         0.97         0.85         0.84         1.02           70         0.97         0.85         0.85         1.02           71         0.99         0.84         0.86         1.03           72         1.02         0.85         0.87         1.04           73         1.03         0.85         0.87         1.04           75         1.05         0.86         0.91         1.04           76         1.08         0.87         0.92         1.04           77         1.11         0.92         0.94         1.07           78	61		0.86		0.85	
63         0.84         0.85         0.82         1.00           64         0.84         0.84         0.81         1.01           65         0.87         0.84         0.81         1.01           66         0.88         0.85         0.81         1.01           67         0.87         0.82         0.81         1.00           68         0.91         0.82         0.82         1.01           69         0.95         0.85         0.84         1.02           70         0.97         0.85         0.85         1.02           71         0.99         0.84         0.86         1.03           72         1.02         0.85         0.87         1.04           73         1.03         0.85         0.89         1.03           74         1.04         0.85         0.90         1.04           75         1.05         0.86         0.91         1.04           76         1.08         0.87         0.92         1.04           77         1.11         0.92         0.94         1.07           78         1.09         0.94         0.95         1.02						
64         0.84         0.84         0.81         1.01           65         0.87         0.84         0.81         1.01           66         0.88         0.85         0.81         1.01           67         0.87         0.82         0.81         1.00           68         0.91         0.82         0.82         1.01           69         0.95         0.85         0.84         1.02           70         0.97         0.85         0.85         1.02           71         0.99         0.84         0.86         1.03           72         1.02         0.85         0.87         1.04           73         1.03         0.85         0.89         1.03           74         1.04         0.85         0.90         1.04           75         1.05         0.86         0.91         1.04           76         1.08         0.87         0.92         1.04           77         1.11         0.92         0.94         0.95         1.05           79         1.08         0.94         0.95         1.02           80         1.09         0.93         0.96         1.04			0.85		0.82	
65         0.87         0.84         0.81         1.01           66         0.88         0.85         0.81         1.01           67         0.87         0.82         0.81         1.00           68         0.91         0.82         0.82         1.01           69         0.95         0.85         0.85         1.02           70         0.97         0.85         0.85         1.02           71         0.99         0.84         0.86         1.03           72         1.02         0.85         0.89         1.03           72         1.02         0.85         0.89         1.03           74         1.04         0.85         0.89         1.03           74         1.04         0.85         0.90         1.04           75         1.05         0.86         0.91         1.04           76         1.08         0.87         0.92         1.04           77         1.11         0.92         0.94         0.95         1.05           79         1.08         0.94         0.95         1.02           80         1.09         0.93         0.96         1.04			0.84		0.81	
67         0.87         0.82         0.81         1.00           68         0.91         0.82         0.82         1.01           69         0.95         0.85         0.84         1.02           70         0.97         0.85         0.85         1.02           71         0.99         0.84         0.86         1.03           72         1.02         0.85         0.87         1.04           73         1.03         0.85         0.89         1.03           74         1.04         0.85         0.90         1.04           75         1.05         0.86         0.91         1.04           76         1.08         0.87         0.92         1.04           77         1.11         0.92         0.94         1.07           78         1.09         0.94         0.95         1.05           79         1.08         0.94         0.95         1.02           80         1.09         0.93         0.96         1.04           81         1.10         0.95         0.97         1.04           82         1.08         0.93         0.96         1.04						
67         0.87         0.82         0.81         1.00           68         0.91         0.82         0.82         1.01           69         0.95         0.85         0.84         1.02           70         0.97         0.85         0.85         1.02           71         0.99         0.84         0.86         1.03           72         1.02         0.85         0.87         1.04           73         1.03         0.85         0.89         1.03           74         1.04         0.85         0.90         1.04           75         1.05         0.86         0.91         1.04           76         1.08         0.87         0.92         1.04           77         1.11         0.92         0.94         1.07           78         1.09         0.94         0.95         1.05           79         1.08         0.94         0.95         1.02           80         1.09         0.93         0.96         1.04           81         1.10         0.95         0.97         1.04           82         1.08         0.93         0.96         1.04	66	0.88	0.85		0.81	1.01
68         0.91         0.82         0.84         1.02           70         0.97         0.85         0.85         1.02           71         0.99         0.84         0.86         1.03           72         1.02         0.85         0.87         1.04           73         1.03         0.85         0.89         1.03           74         1.04         0.85         0.90         1.04           75         1.05         0.86         0.91         1.04           76         1.08         0.87         0.92         1.04           77         1.11         0.92         0.94         1.07           78         1.09         0.94         0.95         1.05           79         1.08         0.94         0.95         1.05           79         1.08         0.94         0.95         1.05           80         1.09         0.93         0.96         1.04           82         1.08         0.93         0.96         1.04           83         1.08         0.91         0.95         1.04           84         1.03         0.89         0.96         1.02						
69         0.95         0.85         0.85         1.02           70         0.97         0.85         0.85         1.02           71         0.99         0.84         0.86         1.03           72         1.02         0.85         0.87         1.04           73         1.03         0.85         0.89         1.03           74         1.04         0.85         0.90         1.04           75         1.05         0.86         0.91         1.04           76         1.08         0.87         0.92         1.04           77         1.11         0.92         0.94         1.07           78         1.09         0.94         0.95         1.05           79         1.08         0.94         0.95         1.02           80         1.09         0.93         0.96         1.04           81         1.10         0.95         0.97         1.04           82         1.08         0.93         0.96         1.04           83         1.08         0.93         0.96         1.04           84         1.03         0.89         0.97         1.04	68		0.82			
70         0.97         0.85         0.85         1.02           71         0.99         0.84         0.86         1.03           72         1.02         0.85         0.87         1.04           73         1.03         0.85         0.89         1.03           74         1.04         0.85         0.90         1.04           75         1.05         0.86         0.91         1.04           76         1.08         0.87         0.92         1.04           77         1.11         0.92         0.94         1.07           78         1.09         0.94         0.95         1.05           79         1.08         0.94         0.95         1.05           79         1.08         0.94         0.95         1.05           79         1.08         0.94         0.95         1.02           80         1.09         0.93         0.96         1.04           81         1.10         0.95         0.97         1.04           82         1.08         0.93         0.96         1.04           83         1.08         0.91         0.95         1.04						
71         0.99         0.84         0.86         1.03           72         1.02         0.85         0.87         1.04           73         1.03         0.85         0.89         1.03           74         1.04         0.85         0.90         1.04           75         1.05         0.86         0.91         1.04           76         1.08         0.87         0.92         1.04           77         1.11         0.92         0.94         1.07           78         1.09         0.94         0.95         1.05           79         1.08         0.94         0.95         1.05           79         1.08         0.94         0.95         1.02           80         1.09         0.93         0.96         1.04           81         1.10         0.95         0.97         1.04           82         1.08         0.93         0.96         1.04           83         1.08         0.91         0.95         1.04           84         1.03         0.89         0.99         1.02           85         1.06         0.92         0.99         1.01						
72         1.02         0.85         0.87         1.04           73         1.03         0.85         0.89         1.03           74         1.04         0.85         0.90         1.04           75         1.05         0.86         0.91         1.04           76         1.08         0.87         0.92         1.04           77         1.11         0.92         0.94         1.07           78         1.09         0.94         0.95         1.05           79         1.08         0.94         0.95         1.02           80         1.09         0.93         0.96         1.04           81         1.10         0.95         0.97         1.04           82         1.08         0.93         0.96         1.04           83         1.08         0.91         0.95         1.04           84         1.03         0.89         0.96         1.02           85         1.06         0.92         0.99         1.01           87         1.04         0.90         1.00         0.99           88         1.07         0.90         1.00         0.99						
74         1.04         0.85         0.90         1.04           75         1.05         0.86         0.91         1.04           76         1.08         0.87         0.92         1.04           77         1.11         0.92         0.94         1.07           78         1.09         0.94         0.95         1.05           79         1.08         0.94         0.95         1.02           80         1.09         0.93         0.96         1.04           81         1.10         0.95         0.97         1.04           82         1.08         0.93         0.96         1.04           83         1.08         0.91         0.95         1.04           84         1.03         0.89         0.96         1.04           84         1.03         0.89         0.96         1.02           85         1.06         0.92         0.99         1.02           86         1.04         0.93         0.99         1.01           87         1.04         0.90         1.00         0.99           89         1.13         0.94         0.99         1.01	72	1.02	0.85		0.87	1.04
75         1.05         0.86           76         1.08         0.87           77         1.11         0.92         0.94         1.07           78         1.09         0.94         0.95         1.05           79         1.08         0.94         0.95         1.05           79         1.08         0.94         0.95         1.02           80         1.09         0.93         0.96         1.04           81         1.10         0.95         0.97         1.04           82         1.08         0.93         0.96         1.04           83         1.08         0.91         0.95         1.04           84         1.03         0.89         0.96         1.04           84         1.03         0.89         0.99         1.02           85         1.06         0.92         0.99         1.02           86         1.04         0.90         1.00         0.99           87         1.04         0.90         1.00         0.99           89         1.13         0.94         0.99         1.01           90         1.09         0.95         1.00	73	1.03	0.85		0.89	1.03
76         1.08         0.87         0.92         1.04           77         1.11         0.92         0.94         1.07           78         1.09         0.94         0.95         1.05           79         1.08         0.94         0.95         1.02           80         1.09         0.93         0.96         1.04           81         1.10         0.95         0.97         1.04           82         1.08         0.93         0.96         1.04           83         1.08         0.91         0.95         1.04           84         1.03         0.89         0.96         1.04           84         1.03         0.89         0.95         1.04           85         1.06         0.92         0.99         1.02           86         1.04         0.93         0.99         1.01           87         1.04         0.90         1.00         0.99           88         1.07         0.90         1.00         0.99           89         1.13         0.94         0.99         1.01           90         1.09         0.95         0.99         1.02	74	1.04	0.85		0.90	1.04
77         1.11         0.92         0.94         1.07           78         1.09         0.94         0.95         1.05           79         1.08         0.94         0.95         1.02           80         1.09         0.93         0.96         1.04           81         1.10         0.95         0.97         1.04           82         1.08         0.93         0.96         1.04           83         1.08         0.91         0.95         1.04           84         1.03         0.89         0.96         1.02           85         1.06         0.92         0.99         1.02           86         1.04         0.93         0.99         1.01           87         1.04         0.90         1.00         0.99           88         1.07         0.90         1.00         0.99           89         1.13         0.94         0.99         1.01           90         1.09         0.95         0.99         1.02           91         1.07         0.96         1.00         1.02           92         1.09         1.00         1.01         1.03	75	1.05	0.86			1.04
78         1.09         0.94         0.95         1.05           79         1.08         0.94         0.95         1.02           80         1.09         0.93         0.96         1.04           81         1.10         0.95         0.97         1.04           82         1.08         0.93         0.96         1.04           83         1.08         0.91         0.95         1.04           84         1.03         0.89         0.96         1.02           85         1.06         0.92         0.99         1.02           86         1.04         0.93         0.99         1.01           87         1.04         0.90         1.00         0.99           89         1.13         0.94         0.99         1.01           90         1.09         0.95         0.99         1.02           91         1.07         0.96         1.00         1.02           92         1.09         1.00         1.01         1.03           93         1.06         1.01         1.02         1.03           94         1.03         1.00         0.99         1.05	76	1.08	0.87		0.92	1.04
79         1.08         0.94         0.95         1.02           80         1.09         0.93         0.96         1.04           81         1.10         0.95         0.97         1.04           82         1.08         0.93         0.96         1.04           83         1.08         0.91         0.95         1.04           84         1.03         0.89         0.96         1.02           85         1.06         0.92         0.99         1.02           86         1.04         0.93         0.99         1.01           87         1.04         0.90         1.00         0.99           88         1.07         0.90         1.00         0.99           89         1.13         0.94         0.99         1.01           90         1.09         0.95         0.99         1.02           91         1.07         0.96         1.00         1.02           92         1.09         1.00         1.01         1.03           93         1.06         1.01         1.02         1.03           94         1.03         1.00         1.01         1.03	77	1.11	0.92		0.94	1.07
80         1.09         0.93         0.96         1.04           81         1.10         0.95         0.97         1.04           82         1.08         0.93         0.96         1.04           83         1.08         0.91         0.95         1.04           84         1.03         0.89         0.96         1.02           85         1.06         0.92         0.99         1.02           86         1.04         0.93         0.99         1.01           87         1.04         0.90         1.00         0.99           88         1.07         0.90         1.00         0.99           89         1.13         0.94         0.99         1.01           90         1.09         0.95         0.99         1.02           91         1.07         0.96         1.00         1.02           92         1.09         1.00         1.01         1.03           93         1.06         1.01         1.02         1.03           94         1.03         1.00         1.01         1.03           95         1.01         1.00         0.99         1.05					0.95	1.05
81         1.10         0.95         0.97         1.04           82         1.08         0.93         0.96         1.04           83         1.08         0.91         0.95         1.04           84         1.03         0.89         0.96         1.02           85         1.06         0.92         0.99         1.02           86         1.04         0.93         0.99         1.01           87         1.04         0.90         1.00         0.99           88         1.07         0.90         1.00         0.99           89         1.13         0.94         0.99         1.01           90         1.09         0.95         0.99         1.02           91         1.07         0.96         1.00         1.02           92         1.09         1.00         1.01         1.03           93         1.06         1.01         1.02         1.03           94         1.03         1.00         1.01         1.03           95         1.01         1.00         0.99         1.05           97         1.00         1.02         0.99         1.05						
82         1.08         0.93         0.96         1.04           83         1.08         0.91         0.95         1.04           84         1.03         0.89         0.96         1.02           85         1.06         0.92         0.99         1.02           86         1.04         0.93         0.99         1.01           87         1.04         0.90         1.00         0.99           88         1.07         0.90         1.00         0.99           89         1.13         0.94         0.99         1.01           90         1.09         0.95         0.99         1.02           91         1.07         0.96         1.00         1.02           92         1.09         1.00         1.01         1.03           93         1.06         1.01         1.02         1.03           94         1.03         1.00         1.01         1.03           95         1.01         1.00         0.99         1.05           97         1.00         1.02         0.99         1.05           98         1.00         1.04         0.99         1.05						
83         1.08         0.91         0.95         1.04           84         1.03         0.89         0.96         1.02           85         1.06         0.92         0.99         1.02           86         1.04         0.93         0.99         1.01           87         1.04         0.90         1.00         0.99           88         1.07         0.90         1.00         0.99           89         1.13         0.94         0.99         1.01           90         1.09         0.95         0.99         1.02           91         1.07         0.96         1.00         1.02           92         1.09         1.00         1.01         1.03           93         1.06         1.01         1.02         1.03           94         1.03         1.00         1.01         1.03           95         1.01         1.00         0.99         1.05           97         1.00         1.02         0.99         1.05           98         1.00         1.04         0.99         1.05           99         0.99         1.04         1.00         1.04						
84         1.03         0.89         0.96         1.02           85         1.06         0.92         0.99         1.02           86         1.04         0.93         0.99         1.01           87         1.04         0.90         1.00         0.99           88         1.07         0.90         1.00         0.99           89         1.13         0.94         0.99         1.01           90         1.09         0.95         0.99         1.02           91         1.07         0.96         1.00         1.02           92         1.09         1.00         1.01         1.03           93         1.06         1.01         1.02         1.03           94         1.03         1.00         1.01         1.03           95         1.01         1.00         0.99         1.04           96         1.01         1.01         0.99         1.05           97         1.00         1.02         0.99         1.05           98         1.00         1.04         0.99         1.05           99         0.99         1.04         1.00         1.03						
85         1.06         0.92         0.99         1.02           86         1.04         0.93         0.99         1.01           87         1.04         0.90         1.00         0.99           88         1.07         0.90         1.00         0.99           89         1.13         0.94         0.99         1.01           90         1.09         0.95         0.99         1.02           91         1.07         0.96         1.00         1.02           92         1.09         1.00         1.01         1.03           93         1.06         1.01         1.02         1.03           94         1.03         1.00         1.01         1.03           95         1.01         1.00         0.99         1.04           96         1.01         1.01         0.99         1.05           97         1.00         1.02         0.99         1.05           98         1.00         1.04         0.99         1.05           99         0.99         1.04         1.00         1.03           101         0.99         1.03         1.00         1.03						
86         1.04         0.93         0.99         1.01           87         1.04         0.90         1.00         0.99           88         1.07         0.90         1.00         0.99           89         1.13         0.94         0.99         1.01           90         1.09         0.95         0.99         1.02           91         1.07         0.96         1.00         1.02           92         1.09         1.00         1.01         1.03           93         1.06         1.01         1.02         1.03           94         1.03         1.00         1.01         1.03           95         1.01         1.00         0.99         1.04           96         1.01         1.01         0.99         1.05           97         1.00         1.02         0.99         1.05           98         1.00         1.04         0.99         1.05           99         0.99         1.04         1.00         1.03           101         0.99         1.02         1.00         1.03           101         0.99         1.02         1.00         1.02						
87         1.04         0.90         1.00         0.99           88         1.07         0.90         1.00         0.99           89         1.13         0.94         0.99         1.01           90         1.09         0.95         0.99         1.02           91         1.07         0.96         1.00         1.02           92         1.09         1.00         1.01         1.03           93         1.06         1.01         1.02         1.03           94         1.03         1.00         1.01         1.03           95         1.01         1.00         0.99         1.04           96         1.01         1.01         0.99         1.05           97         1.00         1.02         0.99         1.05           98         1.00         1.04         0.99         1.05           99         0.99         1.04         1.00         1.04           100         0.99         1.03         1.00         1.03           101         0.99         1.02         1.00         1.03           101         0.99         1.02         1.00         1.02						
88         1.07         0.90         1.00         0.99           89         1.13         0.94         0.99         1.01           90         1.09         0.95         0.99         1.02           91         1.07         0.96         1.00         1.02           92         1.09         1.00         1.01         1.03           93         1.06         1.01         1.02         1.03           94         1.03         1.00         1.01         1.03           95         1.01         1.00         0.99         1.04           96         1.01         1.01         0.99         1.05           97         1.00         1.02         0.99         1.05           98         1.00         1.04         0.99         1.05           99         0.99         1.04         1.00         1.04           100         0.99         1.03         1.00         1.03           101         0.99         1.02         1.00         1.03           102         0.98         1.01         0.99         1.01           103         0.99         1.01         0.99         1.01						
89         1.13         0.94         0.99         1.01           90         1.09         0.95         0.99         1.02           91         1.07         0.96         1.00         1.02           92         1.09         1.00         1.01         1.03           93         1.06         1.01         1.02         1.03           94         1.03         1.00         1.01         1.03           95         1.01         1.00         0.99         1.04           96         1.01         1.01         0.99         1.05           97         1.00         1.02         0.99         1.05           98         1.00         1.04         0.99         1.05           99         0.99         1.04         0.99         1.05           99         0.99         1.04         1.00         1.04           100         0.99         1.03         1.00         1.03           101         0.99         1.02         1.00         1.02           102         0.98         1.01         0.99         1.01           103         0.99         1.01         0.99         1.00						
90         1.09         0.95         0.99         1.02           91         1.07         0.96         1.00         1.02           92         1.09         1.00         1.01         1.03           93         1.06         1.01         1.02         1.03           94         1.03         1.00         1.01         1.03           95         1.01         1.00         0.99         1.04           96         1.01         1.01         0.99         1.05           97         1.00         1.02         0.99         1.05           98         1.00         1.04         0.99         1.05           99         0.99         1.04         1.00         1.04           100         0.99         1.03         1.00         1.03           101         0.99         1.02         1.00         1.02           102         0.98         1.01         0.99         1.01           103         0.99         1.01         0.99         1.00						
91         1.07         0.96         1.00         1.02           92         1.09         1.00         1.01         1.03           93         1.06         1.01         1.02         1.03           94         1.03         1.00         1.01         1.03           95         1.01         1.00         0.99         1.04           96         1.01         1.01         0.99         1.05           97         1.00         1.02         0.99         1.05           98         1.00         1.04         0.99         1.05           99         0.99         1.04         1.00         1.04           100         0.99         1.03         1.00         1.03           101         0.99         1.02         1.00         1.03           102         0.98         1.01         0.99         1.01           103         0.99         1.01         0.99         1.00						
92         1.09         1.00         1.01         1.03           93         1.06         1.01         1.02         1.03           94         1.03         1.00         1.01         1.03           95         1.01         1.00         0.99         1.04           96         1.01         1.01         0.99         1.05           97         1.00         1.02         0.99         1.05           98         1.00         1.04         0.99         1.05           99         0.99         1.04         1.00         1.04           100         0.99         1.03         1.00         1.03           101         0.99         1.02         1.00         1.02           102         0.98         1.01         0.99         1.01           103         0.99         1.01         0.99         1.00						
93         1.06         1.01         1.02         1.03           94         1.03         1.00         1.01         1.03           95         1.01         1.00         0.99         1.04           96         1.01         1.01         0.99         1.05           97         1.00         1.02         0.99         1.05           98         1.00         1.04         0.99         1.05           99         0.99         1.04         1.00         1.04           100         0.99         1.03         1.00         1.03           101         0.99         1.02         1.00         1.02           102         0.98         1.01         0.99         1.01           103         0.99         1.01         0.99         1.00						
94         1.03         1.00         1.01         1.03           95         1.01         1.00         0.99         1.04           96         1.01         1.01         0.99         1.05           97         1.00         1.02         0.99         1.05           98         1.00         1.04         0.99         1.05           99         0.99         1.04         1.00         1.04           100         0.99         1.03         1.00         1.03           101         0.99         1.02         1.00         1.02           102         0.98         1.01         0.99         1.01           103         0.99         1.01         0.99         1.00						
95         1.01         1.00         0.99         1.04           96         1.01         1.01         0.99         1.05           97         1.00         1.02         0.99         1.05           98         1.00         1.04         0.99         1.05           99         0.99         1.04         1.00         1.04           100         0.99         1.03         1.00         1.03           101         0.99         1.02         1.00         1.02           102         0.98         1.01         0.99         1.01           103         0.99         1.01         0.99         1.00						
96     1.01     1.01     0.99     1.05       97     1.00     1.02     0.99     1.05       98     1.00     1.04     0.99     1.05       99     0.99     1.04     1.00     1.04       100     0.99     1.03     1.00     1.03       101     0.99     1.02     1.00     1.02       102     0.98     1.01     0.99     1.01       103     0.99     1.01     0.99     1.00						
97     1.00     1.02     0.99     1.05       98     1.00     1.04     0.99     1.05       99     0.99     1.04     1.00     1.04       100     0.99     1.03     1.00     1.03       101     0.99     1.02     1.00     1.02       102     0.98     1.01     0.99     1.01       103     0.99     1.01     0.99     1.00						
98     1.00     1.04     0.99     1.05       99     0.99     1.04     1.00     1.04       100     0.99     1.03     1.00     1.03       101     0.99     1.02     1.00     1.02       102     0.98     1.01     0.99     1.01       103     0.99     1.01     0.99     1.00						
99         0.99         1.04         1.00         1.04           100         0.99         1.03         1.00         1.03           101         0.99         1.02         1.00         1.02           102         0.98         1.01         0.99         1.01           103         0.99         1.01         0.99         1.00						
100     0.99     1.03       101     0.99     1.02       102     0.98     1.01       103     0.99     1.01       100     1.03       1.00     1.02       1.01     0.99     1.01       1.02     0.99     1.00						
101     0.99     1.02     1.00     1.02       102     0.98     1.01     0.99     1.01       103     0.99     1.01     0.99     1.00						
102     0.98     1.01     0.99     1.01       103     0.99     1.01     0.99     1.00						
103 0.99 1.01 0.99 1.00						
	104+	0.99	1.00		1.00	1.01

	Era Bucket				
Duration	Old	New			
1	0.99	0.81			
2	0.99	0.70			
3	0.99	0.63			
4	0.99	0.59			
5	0.99	0.56			
6	0.99	0.66			
7	0.99	0.75			
8	0.99	0.81			
9	0.99	0.84			
10	0.99	0.86			
11	0.99	0.90			
12	0.99	0.92			
13	0.99	0.93			
14	0.99	0.96			
15	1.01	0.98			
16	1.01	0.98			
17	1.04	0.98			
18	1.04	0.98			
19	1.04	0.98			
20+	1.03	0.98			

Exhibit A-1b
Actual-to-Modeled Mortality Experience 2008-2017
Policy Durations 7+
All Products

Policy or	Policy Year	Ad	ctual	Mortality Probability		Actual-to-Modeled	Mortality Probability
Policyholder	Exposure	Deaths	Probability	2012IAM	Modeled	2012IAM	Modeled
Characteristic	[A]	[B]	[C]	[D]	[E]	[F] = [C] / [D]	[G] = [C] / [E]
Marital Status							
Married	386,931	5,992	1.5%	1.8%	1.6%	0.86	0.99
Single	392,172	9,243	2.3%	2.4%	2.3%	0.97	1.00
Gender							
Female	452,361	7,931	1.7%	2.0%	1.7%	0.88	0.99
Male	326,742	7,304	2.2%	2.3%	2.2%	0.98	1.00
Era							
New	569,023	7,175	1.3%	1.5%	1.3%	0.84	0.99
Old	210,080	8,060	3.8%	3.7%	3.8%	1.02	1.00
Policy Duration						•	
7-9	204,938	1,429	0.7%	1.0%	0.7%	0.70	0.97
10-14	315,361	4,614	1.5%	1.7%	1.5%	0.87	0.99
15-19	172,971	5,090	2.9%	2.9%	2.9%	1.00	1.01
20-24	69,899	3,138	4.4%	4.3%	4.4%	1.03	1.00
25+	15,933	964	5.9%	5.7%	5.9%	1.03	0.99
Attained Age	-					-	
<65	278,751	776	0.3%	0.4%	0.3%	0.71	0.95
65-69	121,892	789	0.6%	0.9%	0.7%	0.70	0.98
70-74	121,461	1,396	1.1%	1.4%	1.2%	0.80	0.99
75-79	111,354	2,505	2.2%	2.4%	2.2%	0.93	1.00
80-84	84,877	3,624	4.2%	4.3%	4.2%	0.97	1.00
85+	60,768	6,145	9.6%	9.5%	9.6%	1.01	1.00
Total	779,103	15,235	1.9%	2.1%	1.9%	0.93	1.00

Exhibit A-1c Composite Termination Attained Age Mortality Adjustment For Policy Durations 7+ All Products

Attained	
Attailled	Adjustment
<55	1.00
55	1.00
56	1.00
57	1.00
58	1.00
59	1.00
60	1.00
61	1.00
62	1.00
63	1.00
64	1.00
65	1.00
66	1.00
67	1.00
68	1.00
69	1.00
70	1.00
71	1.01
72	1.01
73	1.01
74	1.01

Attained	
Age	Adjustment
75	1.02
76	1.02
77	1.03
78	1.03
79	1.03
80	1.03
81	1.04
82	1.04
83	1.04
84	1.04
85	1.05
86	1.05
87	1.06
88	1.06
89	1.06
90	1.06
91	1.07
92	1.07
93	1.07
94	1.07
95+	1.07

Exhibit A-2
Actual-to-Modeled Voluntary Lapse Experience 2008-2017
Lifetime-Pay for Policy Durations 10+
All Products

	Policy Year A		tual	Lapse Pro	obability	Actual-to-Modeled	Lapse Probability
Policy or Policyholder	Exposure	Lapses	Probability	Unadjusted	Modeled	Unadjusted	Modeled
Characteristic	[A]	[B]	[C]	[D]	[E]	[F] = [C] / [D]	[G] = [C] / [E]
Marital Status							
	222.242	4 757	0.00/	1.00/	0.00/	1 0.70	
Married	226,840	1,757	0.8%	1.0%	0.8%	0.76	0.98
Single	252,968	2,338	0.9%	0.9%	0.9%	1.02	1.01
Benefit Period							
Non-Lifetime	343,952	3,341	1.0%	1.0%	1.0%	0.95	1.01
Lifetime	135,856	754	0.6%	0.8%	0.6%	0.68	0.95
Inflation			_				
None	177,263	2,052	1.2%	1.0%	1.1%	1.13	1.01
Auto	302,544	2,043	0.7%	0.9%	0.7%	0.73	0.98
Cohort <sup>[1]</sup>							
Prior to Series 11	19,434	146	0.7%	1.0%	0.8%	0.75	0.90
Series 11 Individual	54,987	326	0.6%	0.6%	0.6%	0.99	1.00
Series 11 Group	19,641	216	1.1%	1.3%	1.1%	0.84	0.98
Attained Age	•		·			•	
<65	113,757	1,078	0.9%	0.9%	0.8%	1.01	1.14
65-69	67,892	376	0.6%	0.9%	0.6%	0.59	0.91
70-74	79,255	523	0.7%	1.0%	0.7%	0.68	0.92
75-79	88,328	649	0.7%	1.0%	0.8%	0.74	0.93
80-84	74,228	677	0.9%	1.0%	0.9%	0.94	0.96
85+	56,348	792	1.4%	1.0%	1.4%	1.45	1.01
Total	479,808	4,095	0.8%	1.0%	0.9%	0.89	1.00

<sup>[1]</sup> Series characteristic captures the experience of Prior to Series 11, Series 11 Individual, and Series 11 Group policies only, while other characteristics capture the pooled experience of products of MedAmerica, its affinity partners, and MedAmerica's acquired blocks of business.

Exhibit A-3

Actual-to-Expected Composite<sup>[1]</sup> Termination Experience 2008-2017

Lifetime-Pay for Policy Durations 10+

All Products

	Policy Year	Act	ual	Expected Termination	Actual-to-Expected	
Policy or Policyholder	Exposure	Terminations	Probability	Probability <sup>[1]</sup>	Termination Probability <sup>[1]</sup>	
Characteristic	[A]	[B]	[C]	[D]	[E] = [C] / [D]	
Marital Status						
Married	226,840	6,737	2.9%	2.9%	1.00	
Single	252,968	10,430	4.0%	3.9%	1.03	
Gender						
Female	291,631	9,451	3.2%	3.2%	1.01	
Male	188,176	7,716	4.0%	3.9%	1.03	
Era						
New	291,819	7,978	2.7%	2.6%	1.04	
Old	187,989	9,189	4.8%	4.8%	1.00	
Benefit Period		-				
Non-Lifetime	343,952	13,461	3.8%	3.8%	1.02	
Lifetime	135,856	3,706	2.7%	2.6%	1.03	
Inflation		-		•		
None	177,263	9,333	5.1%	4.9%	1.05	
Auto	302,544	7,834	2.6%	2.6%	0.99	
Cohort <sup>[2]</sup>				•		
Prior to Series 11	19,434	1,066	5.3%	5.1%	1.04	
Series 11 Individual	54,987	1,715	3.1%	3.0%	1.03	
Series 11 Group	19,641	392	2.0%	1.8%	1.09	
Policy Duration		•		•		
10-14	256,833	6,828	2.6%	2.5%	1.07	
15-19	145,062	5,757	3.9%	3.9%	0.99	
20-24	62,763	3,496	5.4%	5.4%	1.00	
25+	15,150	1,086	6.9%	7.1%	0.98	
Attained Age	•	,		•		
<65	113,757	1,466	1.3%	1.2%	1.11	
65-69	67,892	883	1.3%	1.3%	0.99	
70-74	79,255	1,488	1.9%	1.9%	1.00	
75-79	88,328	2,733	3.0%	3.0%	1.01	
80-84	74,228	3,966	5.2%	5.1%	1.02	
85+	56,348	6,631	11.1%	10.9%	1.01	
Total	479,808	17,167	3.5%	3.4%	1.02	

<sup>[1]</sup> Combination of mortality and voluntary lapse

<sup>[2]</sup> Series characteristic captures the experience of Prior to Series 11, Series 11 Individual, and Series 11 Group policies only, while other characteristics capture the pooled experience of products of MedAmerica, its affinity partners, and MedAmerica's acquired blocks of business.

Exhibit A-4
Actual-to-Expected Benefit Expiry Experience 2008-2017
Policy Durations 7+
All Products

Policy or	Policy Year	Act	ual	Benefit Expiry	Benefit Expiry Probability		d Benefit Expiry
Policyholder	Exposure <sup>[1]</sup>	Benefit Expiry	Probability	2017 Guidelines	Expected <sup>[2]</sup>	2017 Guidelines	Expected <sup>[2]</sup>
Characteristic	[A]	[B]	[C]	[D]	[E]	[F] = [C] / [D]	[G] = [C] / [E]
-							
Gender							
Female	226,513	1,317	0.6%	0.5%	0.6%	1.07	1.02
Male	162,541	445	0.3%	0.3%	0.3%	0.99	0.97
Benefit Period							
1 Year	21,879	139	0.6%	0.7%	0.7%	0.91	0.88
2 Year	59,932	533	0.9%	0.7%	0.8%	1.20	1.13
3 Year	181,848	722	0.4%	0.4%	0.4%	0.96	0.93
4 Year	52,938	188	0.4%	0.3%	0.4%	1.05	0.99
5 Year	66,951	175	0.3%	0.2%	0.2%	1.19	1.12
6 Year	4,677	5	0.1%	0.0%	0.0%	2.92	2.80
10 Year	830	0	0.0%	0.0%	0.0%	0.00	0.00
Attained Age		•		•		•	
<75	186,976	86	0.0%	0.1%	0.1%	0.64	0.83
75-79	85,088	145	0.2%	0.2%	0.2%	0.73	0.90
80-84	66,442	376	0.6%	0.6%	0.6%	1.01	1.01
85-89	36,785	544	1.5%	1.3%	1.5%	1.10	0.99
90-94	11,698	466	3.9%	3.0%	3.7%	1.30	1.06
95+	2,066	145	6.8%	5.6%	6.3%	1.22	1.07
Total	389,054	1,762	0.5%	0.4%	0.5%	1.05	1.00

<sup>[1]</sup> Experience excludes lifetime benefit periods and ages less than 65

<sup>[2]</sup> Expected = Rates in Section 6 of the actuarial memorandum

#### Exhibit A-5a MedAmerica and Affinity Partners Morbidity Adjustment Factors Series 11 and Prior Policy Forms

	Product-Specific Adjustment Factors						
	Prior to	Series 11	Series 11				
Duration	Series 11	Individual	Group				
1	1.01	1.00	0.89				
2	1.03	0.98	0.83				
3	1.04	0.96	0.78				
4	1.09	0.99	0.74				
5	1.17	0.97	0.71				
6	1.19	0.97	0.76				
7	1.18	1.00	0.82				
8	1.16	1.02	0.91				
9	1.09	0.97	1.01				
10	1.01	0.98	1.13				
11	0.96	1.01	1.23				
12	0.97	1.04	1.24				
13	1.00	1.06	1.17				
14	1.05	1.09	1.09				
15	1.11	1.14	1.00				
16	1.12	1.11	0.96				
17	1.11	1.07	0.95				
18	1.08	1.05	0.96				
19	1.04	1.03	0.98				
20+	1.02	1.02	0.99				

	Product-Specific Adjustment Factors					
Attained	Prior to	Series 11	Series 11	1 1		
Age	Series 11	Individual	Group	1 I		
<55	1.05	1.00	1.02			
55	1.05	1.00	1.02			
56	1.05	1.00	1.02	1 I		
57	1.04	1.00	1.01	1 I		
58	1.02	0.97	0.99	1 I		
59	1.09	0.94	0.99	1 I		
60	1.09	0.93	0.97			
61	1.15	0.93	0.98	1 I		
62	1.23	0.89	0.99	1 I		
63	1.36	0.86	1.00	1 I		
64	1.28	0.87	0.99	i		
65	1.23	0.90	0.97			
66	1.20	0.90	0.95	ıl		
67	1.18	0.95	0.93	ıl		
68	1.08	1.07	0.95	ıl		
69	1.08	1.11	0.93	i		
70	1.06	1.09	0.93			
71	1.00	1.10	0.94	ıl		
72	0.94	1.13	0.95	1 I		
73	0.94	1.09	0.95	ıl		
74	0.94	1.10	0.98	i		
75	0.91	1.13	0.99	·  -		
76	0.90	1.13	1.00	il		
77	0.92	1.05	0.99	1 I		
78	0.90	1.05	0.98	ıl		
79	0.89	1.04	0.98	ıl		
80	0.93	1.03	1.00			
81	0.98	1.03	1.01	ıl		
82	0.96	1.09	1.04	ıl		
83	0.99	1.10	1.06	ıl		
84	0.99	1.09	1.06	ıl		
85	0.99	1.09	1.04			
86	0.96	1.09	1.03	ıl		
87	0.98	1.06	1.01	i		
88	0.97	1.05	1.00	i		
89	0.98	1.07	0.99	ıl		
90	0.98	1.06	0.99			
91	0.99	1.06	0.99	ıl		
92	1.00	1.05	0.99	ıl		
93	1.01	1.02	0.99	ıl		
94	1.01	0.99	0.99			
95	1.02	0.98	1.00			
96	1.01	0.97	1.00			
97	1.00	0.97	1.00	i		
98	1.00	0.98	1.00			
99	1.00	0.99	1.00			
100	1.00	0.99	1.00			
101+	1.00	1.00	1.00			
.011	1.00	1.00	50			

Attained	Payment Ty Series 11 and Prio	pe Adjustment Factor	rs Series 11
Age	Non-Tax-Qualified (NTQ)	Tax-Qualified (TQ)	Group
<55	0.99	0.94	1.07
55	0.99	0.94	1.07
56	0.99	0.94	1.07
57	0.94	0.92	1.12
58	0.88	0.92	1.11
59	0.90	0.88	1.11
60	0.91	0.88	1.04
61	0.91	0.90	1.04
62	0.96	0.87	0.92
63	1.05	0.81	0.92
64	0.96	0.81	0.90
65	0.89	0.85	0.90
66	0.89	0.82	0.93
67	0.90	0.87 0.95	1.01 1.07
68	0.83		
69 70	0.88	1.01	1.04
	0.94	0.99	1.01
71	0.98	1.03	0.99
72	1.00	1.05	0.96
73	1.06	1.05	0.96
74	1.11	1.04	0.97
75	1.14	1.04	0.93
76	1.10	1.08	0.93
77	1.08	1.07	0.88
78	1.07	1.09	0.82
79	1.06	1.12	0.77
80	1.03	1.19	0.79
81	1.06	1.15	0.78
82	1.08	1.14	0.82
83	1.14	1.14	0.87
84	1.08	1.10	0.94
85	1.10	1.07	0.95
86	1.09	1.09	0.98
87	1.10	1.17	0.98
88	1.06	1.18	0.97
89	1.09	1.22	0.97
90	1.06	1.24	0.96
91	1.04	1.24	0.97
92	1.02	1.15	0.98
93	1.02	1.11	0.99
94	1.01	1.06	0.99
95	1.03	1.04	0.99
96	1.02	1.01	0.98
97	1.03	1.01	0.98
98	1.00	1.01	0.97
99	1.00	1.01	0.97
100	1.00	1.02	0.98
101+	1.00	1.02	0.98

	Non-MANY Adju	
Attained	Series 11 and	Series 11
Age	Prior Individual	Group
<55	1.07	1.01
55	1.07	1.01
56	1.07	1.01
57	1.06	1.00
58	0.99	0.98
59	0.95	0.99
60	0.89	0.99
61	0.89	1.01
62	0.88	1.03
63	0.94	1.03
64	1.00	1.01
65	1.00	1.00
66	1.09	0.98
67	1.17	0.97
68	1.25	1.00
69	1.26	1.00
70	1.28	1.00
71	1.13	1.01
72	1.09	1.02
73	1.03	1.01
74	1.03	1.02
75	0.99	1.03
76	1.00	1.03
77	0.97	1.02
78	0.97	1.00
79	0.97	1.00
80	1.02	1.01
81	1.08	1.01
82	1.12	1.03
83	1.13	1.05
84	1.11	1.04
85	1.08	1.03
86	1.05	1.02
87	1.03	1.01 1.00
88 89	1.02 1.05	0.99
90	1.05	0.99
90 91	1.05	0.99
91	1.05	0.99
92	1.03	0.99
93 94	1.04	0.99
95	1.00	1.00
95 96	0.98	1.00
96	0.96	1.00
98	0.97	1.00
99	0.98	1.00
100	0.99	1.00
101+	1.00	1.00

Coverage Type	Adjustment Factor
Comprehensive	0.90
Nursing Home Only	1.03
Home Care Only	1 10

Exhibit A-5b

MedAmerica and Affinity Partners

Actual-to-Expected Morbidity Experience through June 30, 2016 with Claim Runout

Series 11 and Prior Policy Forms

Policy or		Actual Incur	red Claims	Incurred	Claims	Actual-to-Expected	Incurred Claims
Policyholder	Exposure	Count	Dollars	2014 Guidelines	Expected	2014 Guidelines	Expected
Characteristic	[A]	[B]	[C]	[D]	[E]	[F] = [C] / [D]	[G] = [C] / [E]
Group / Individual	•	•	•	•	-	•	
Individual	193,242	2,249	178,975,634	156,954,375	176,559,724	1.14	1.01
Group	70,814	144	12,926,716	15,433,614	12,861,010	0.84	1.01
Payment-Type / Tax Status (TO	Q = Tax-Qualified, NTQ	= Non-Tax-Qualifi	ed)		-		
Cash / TQ	-	-	-	-	-	-	-
Reimbursement / NTQ	39,927	917	65,409,856	59,812,646	63,796,383	1.09	1.03
Reimbursement / TQ	224,130	1,476	126,492,493	112,575,343	125,624,350	1.12	1.01
Coverage Type							
Comprehensive	227,746	1,884	150,906,765	139,676,235	147,922,870	1.08	1.02
Nursing Home Only	32,685	460	38,605,492	30,464,462	38,400,192	1.27	1.01
Home Care Only	3,625	49	2,390,092	2,247,291	3,097,671	1.06	0.77
Attained Age							
< 60	83,038	42	4,870,844	5,365,561	4,676,717	0.91	1.04
60 - 69	79,848	159	19,010,143	18,287,944	16,392,665	1.04	1.16
70 - 79	70,206	692	61,059,411	58,372,138	61,346,118	1.05	1.00
80 - 89	28,701	1,254	93,780,632	78,168,887	93,335,869	1.20	1.00
90 +	2,264	246	13,181,321	12,193,459	13,669,365	1.08	0.96
Policy Duration							
< 7	100,261	233	18,673,085	21,414,416	20,738,173	0.87	0.90
7 - 10	81,762	596	50,705,841	45,309,295	48,390,377	1.12	1.05
11 - 15	68,137	1,050	84,288,017	73,690,605	83,520,887	1.14	1.01
16 - 20	13,264	475	36,640,193	30,113,053	34,827,994	1.22	1.05
21 +	632	39	1,595,214	1,860,621	1,943,302	0.86	0.82
Product				-	-		
Series 11 Group	70,814	144	12,926,716	15,433,614	12,861,010	0.84	1.01
Series 11 Individual	153,316	1,332	113,565,777	97,141,729	112,763,341	1.17	1.01
Prior to Series 11	39,927	917	65,409,856	59,812,646	63,796,383	1.09	1.03
Total	264,057	2,393	191,902,350	172,387,989	189,420,734	1.11	1.01

Exhibit A-5c
MedAmerica, Affinity Partners, and Acquired Business
Actual-to-Expected Morbidity Experience through June 30, 2016 with Claim Runout
All Products

Policy or		Actual Incur	red Claims	Incurred	Claims	Actual-to-Expected	Incurred Claims
Policyholder	Exposure	Count	Dollars	2014 Guidelines	Expected	2014 Guidelines	Expected
Characteristic	[A]	[B]	[C]	[D]	[E]	[F] = [C] / [D]	[G] = [C] / [E]
Group / Individual							
Individual	912,916	9,926	800,367,697	733,049,215	794,361,129	1.09	1.01
Group	346,699	1,374	130,339,904	156,675,596	133,888,114	0.83	0.97
Payment-Type / Tax Status (TQ = '	Tax-Qualified, NTQ = No						
Cash / TQ	343,731	558	62,039,510	57,638,053	59,620,193	1.08	1.04
Reimbursement / NTQ	300,053	6,653	510,365,552	479,343,318	507,745,230	1.06	1.01
Reimbursement / TQ	615,831	4,089	358,302,538	352,743,439	360,883,820	1.02	0.99
Coverage Type							
Comprehensive	1,136,716	8,789	756,597,258	749,849,298	758,592,612	1.01	1.00
Nursing Home Only	106,185	2,145	154,205,174	127,829,789	153,061,713	1.21	1.01
Home Care Only	16,715	366	19,905,169	12,045,724	16,594,918	1.65	1.20
Attained Age							
< 60	453,624	244	33,805,437	30,149,268	30,328,735	1.12	1.11
60 - 69	360,462	666	78,589,161	88,054,403	75,788,341	0.89	1.04
70 - 79	291,092	2,748	262,147,876	268,144,812	267,494,038	0.98	0.98
80 - 89	138,826	5,979	465,876,836	417,634,186	464,847,833	1.12	1.00
90 +	15,611	1,663	90,288,290	85,742,142	89,790,297	1.05	1.01
Policy Duration			-				
< 7	497,039	823	75,787,355	82,648,988	79,201,077	0.92	0.96
7 - 10	307,411	1,867	174,015,180	164,578,241	170,058,801	1.06	1.02
11 - 15	278,526	3,765	317,411,016	297,015,693	316,181,994	1.07	1.00
16 - 20	129,643	3,188	245,115,546	230,142,856	242,291,028	1.07	1.01
21 +	46,996	1,657	118,378,503	115,339,033	120,516,343	1.03	0.98
Total	1,259,615	11,300	930,707,601	889,724,811	928,249,243	1.05	1.00

## Appendix B Justification for and Development of the Requested Rate Increase

This appendix provides details on the development of the current rate increase requests as well as demonstrations of how the requested rate increases are not recouping past losses.

#### **Actuarial Equivalent Rate Increase Development**

This rate increase request is a follow-up to two prior nationwide requests for the Prior to Series 11, Series 11 Individual, and Series 11 Group policy forms. Table B-1 provides the originally requested rate increases by benefit period. In jurisdictions that did not allow full implementation of the prior requested increases, the company is requesting a follow-up increase to achieve an actuarially equivalent lifetime loss ratio to the prior requests.

Table B-1
Originally Requested Nationwide Rate Increases
Series 11 and Prior Policy Forms

Benefit Period	2009 Request	2017 Request	Cumulative Request
Non-Lifetime	39.0%	69.1%	135%
Lifetime	39.0	187.1	299
AII <sup>[1]</sup>	39.0	96.8	174

[1] Average as of December 31, 2018 and excludes policies assumed to be paid up prior to implementation of the requested rate increase.

Exhibit B-1 provides the lifetime loss ratio that would have been achieved if all jurisdictions had implemented the originally requested rate increases. This exhibit is similar to Exhibit I-b except that it reflects premiums that have been restated to assume implementation of the originally requested rate increases shown in Table B-1 and is split by benefit period. Table B-2 summarizes the lifetime loss ratios from Exhibit B-1, which are the targets for determining actuarial equivalence.

Table B-2
Target Lifetime Loss Ratio for Actuarial Equivalence
Series 11 and Prior Policy Forms

Benefit Period	Lifetime Loss Ratio		
Non-Lifetime	88%		
Lifetime	130		

The average nationwide requested rate increases shown in Section 2 were developed to produce a lifetime loss ratio that is equivalent to that in Table B-2. This equivalence is demonstrated by comparing the after increase lifetime loss ratios from Section 15 to those in Table B-2.

The requested rate increases in this jurisdiction, shown in the enclosed cover letter, were developed to produce lifetime loss ratios that are equivalent to those in Table B-2. This equivalence is demonstrated by comparing the lifetime loss ratios from Exhibit B-2 to those in Table B-2. Exhibit B-2 provides similar information as Exhibit B-1 except that premiums have been restated to reflect the actual rate increases implemented in this jurisdiction and the requested rate increase shown in the cover letter.

While emerging experience supports a larger rate increase, the company is limiting the increase to be an actuarially equivalent follow-up to the prior requests in order to improve equity across jurisdictions. The company plans to continue to monitor experience and request additional rate increases in the future, to the extent justified. However, if it is the Department's position to only allow future rate increases if experience deteriorates from the current most-likely projections used in this filing, the company respectfully requests that the Department notify them and allow the company to revise the current rate increase request.

#### <u>Demonstrations the Requested Increase does not Recoup Past Losses</u>

A number of methods exist to quantify or demonstrate whether an increase may be recouping past losses and offer the following for consideration.

Appendix B 1

## Appendix B Justification for and Development of the Requested Rate Increase

#### Capped Historical Incurred Claims

The 2014 Long-Term Care Model Regulation (Model Regulation) contemplates recouping past losses in Section 20.1.C for newly issued policies. Specifically, recouping past losses is limited by not allowing past actual claims in excess of expected claims by calendar year in the minimum loss ratio test (Section 20.1.C(2)).

While Section 20.1.C is not applicable to these policies, to demonstrate that the nationwide rate increase request is not recouping past losses we capped actual historical claims by those expected in pricing by calendar year in demonstrating compliance with the applicable minimum loss ratio requirements for these policies. Expected claims are calculated as earned premium multiplied by expected loss ratio for each calendar year.

Tables B-3 and B-4 reflect the capped historical incurred claims and demonstrate compliance with the applicable minimum loss ratio requirements for the pre- and post-rate stability regulation (Model Regulation Sections 19 and 20), respectively. Tables B-3 and B-4 provide similar information as that in Section 15 of the actuarial memorandum, except for capping historical incurred claims at that expected.

Table B-3
Nationwide Lifetime Loss Ratios with Capped Historical Incurred Claims at the Maximum Valuation Interest Rate by Policy Form Cohort and Benefit Period

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Policy Form Cohort	Benefit Period	Before Increase	After Increase				
Prior to Series 11	All	103%	98%				
Series 11 Individual	All	117	100				
Series 11 Group	All	106	91				
All	Non-Lifetime	95	86				
All	Lifetime	147	120				
All	All	110	96				

Table B-4
58%/85% Test with Capped Historical Incurred Claims
by Policy Form Cohort and Benefit Period

by roney ronn concretand bononer once							
Policy Form Cohort	Benefit Period	Item 5 <sup>[1]</sup>	Item 7 <sup>[2][3]</sup>	Result <sup>[4]</sup>			
Prior to Series 11	All	\$149.1	\$256.8	Pass			
Series 11 Individual	All	339.4	581.9	Pass			
Series 11 Group	All	145.5	225.0	Pass			
All	Non-Lifetime	451.5	674.5	Pass			
All	Lifetime	182.5	373.5	Pass			
All	All	634.0	1,054.2	Pass			

<sup>[1]</sup> Item 5 is the Lifetime Earned Premium (in millions) Times Prescribed Factor.

#### HATF Discussion and Lifetime Premium Equivalence

One approach that was considered by the NAIC Health Actuarial Task Force (HATF) during discussions for the development of the Model Regulation was that past losses should be defined as past premium inadequacies given current, updated information. A company would demonstrate this approach by restating premiums to the proposed rate level from inception and demonstrating compliance with minimum loss ratio tests.

This approach was determined by HATF to not be a realistic method to define past losses because in reality there is no opportunity for the company to have perfect knowledge from policy inception and this approach greatly expands

Appendix B 2

<sup>[2]</sup> Item 7 is Lifetime Incurred Claims with Rate Increase (in millions). The historical incurred claims by calendar year reflect the lesser of actual and expected pricing claims. The future projected incurred claims were increased by 15% to reflect assumptions with moderately adverse experience.

<sup>[3]</sup> The capped historical incurred claims are calculated for each indicated cohort. The difference results in the sum of the cohort and/or benefit period not tying to the totals.

<sup>[4]</sup> Test of whether Item 7 is not less than Item 5.

### Appendix B Justification for and Development of the Requested Rate Increase

the risk on the product. Ultimately, HATF settled on the approach that past losses should be defined as any excess of actual past claims over expected claims, which led to the approach outlined in Section 20.1.C of the Model Regulation and described above. For additional background on HATF's review of methods of defining past losses please see the article 'Recouping Past LTC Losses' in the April 2017 issue of the Society of Actuaries Long-Term Care Section newsletter, Long-Term Care News.

While it is not appropriate to use this restrictive method of restating premiums to the proposed rate level from inception to determine the rate increase, we can use it to confirm that current policyholders are not paying more over their lifetime than what they would have if the company had perfect knowledge.

With perfect knowledge, the company would have charged 95% higher rates from issue to reproduce the original pricing loss ratio of 63%. To avoid recouping premium on past policies that will not receive the rate increase, we compare lifetime premiums on a present value basis for the subset of policies that are in-force with lifetime-pay. These policies would have paid \$588 million in the history and \$812 million over the lifetime if the company had perfect knowledge and charged 95% higher premiums from issue. In contrast, the actual premium paid by these policies has been \$327 million in the history and is projected to be \$589 million over the lifetime including the requested rate increase. Therefore, these in-force policies will pay less over their lifetime than what they would have paid if the company had perfect knowledge at issue.

Table B-5 below provides a summary of the present value of lifetime premiums under the scenario discussed above by cohort and benefit period.

Table B-5
Lifetime Premium Equivalence
In-force Policies

III-lorde i dileies							
		Original	Increase	Present Value of Lifetime Premium (Millions) w			
Policy Form Cohort	Benefit Period	Pricing Loss Ratios	Needed from Inception	Perfect Knowledge at Issue <sup>[1]</sup>	Actual History and Requested Increase in Future		
Prior to Series 11	All	66%	54%	\$99	\$82		
Series 11 Individual	All	58	129	553	343		
Series 11 Group	All	70	79	198	164		
All	Non-Lifetime	64	63	499	417		
All	Lifetime	60	190	318	172		
All	All	63	95	812	589		

<sup>[1]</sup> The increase needed from inception is calculated for each indicated cohort for all lives while the present value of premium is calculated based on lifetime-pay policies currently in force. The difference results in the sum of the cohort and/or benefit period not tying to the totals.

Appendix B 3

Exhibit B-1a

MedAmerica and Affinity Partners

Actual and Projected Experience using Current Assumptions by Calendar Year

Nationwide Experience Restated to Assume Implementation of the Originally Requested Rate Increases

Series 11 and Prior Policy Forms with a Non-Lifetime Benefit Period

			Loss Ratio Demonstration					
1		A	Without Interest B	C = B / A	D	<b>W</b>	ith Max. Val. Intere	est G = F / E
		^	D	0-D/A	<i>-</i>	L	'	G-1/E
	Calendar	Earned	Incurred	Incurred	End of Year	Earned	Incurred	Incurred
	Year	Premium	Claims	Loss Ratio	Lives	Premium	Claims	Loss Ratio
	1992 1993	17,107 548,363	0 112,031	0% 20%	109 618	70,691 1,968,133	0 390,130	0% 20%
	1993	1,422,762	28,415	20%	1,328	4,743,366	93,904	20%
	1995	2,303,659	103,954	5%	1,804	7,074,477	310,846	4%
	1996	3,056,353	37,966	1%	2,352	8,681,349	104,007	1%
	1997	3,508,641	258,439	7%	2,382	9,405,579	722,059	8%
	1998	3,868,205	631,867	16%	2,680	9,845,945	1,628,343	17%
	1999 2000	4,639,240 5,901,199	1,009,169 1,121,780	22% 19%	3,364 4,372	11,206,370 13,542,501	2,463,156 2,631,992	22% 19%
	2000	7,826,358	1,379,844	18%	5,994	17,090,117	3,095,051	18%
	2002	10,551,853	2,694,010	26%	8,319	21,963,845	5,686,110	26%
Historical	2003	14,450,349	1,632,121	11%	13,894	28,712,002	3,282,919	11%
Experience	2004	18,607,419	4,081,354	22%	14,961	35,319,853	7,791,705	22%
	2005	19,782,715	4,516,825	23%	16,067	35,912,350	8,251,874	23%
	2006 2007	20,097,050 19,834,507	4,734,626 6,850,962	24% 35%	15,962 16,091	34,852,938 32,866,805	8,263,665 11,437,260	24% 35%
	2007	19,643,967	5,323,056	27%	15.980	31,108,187	8,491,987	27%
	2009	19,085,365	7,968,212	42%	15,608	28,908,046	12,141,446	42%
	2010	18,224,371	9,450,936	52%	14,772	26,409,637	13,787,545	52%
	2011	17,829,171	10,200,270	57%	14,090	24,720,670	14,214,151	57%
	2012 2013	21,284,416 20,563,594	10,167,657	48% 52%	14,112 13,859	28,226,925 26,091,492	13,541,527 13,567,908	48% 52%
	2013	19,228,654	10,637,364 15,688,299	82%	13,493	23,348,968	19,134,334	82%
	2015	18,262,265	12,902,717	71%	13,044	21,229,405	15,049,880	71%
	2016	17,495,763	13,612,856	78%	12,945	19,470,208	15,194,627	78%
	2017	16,590,002	16,273,957	98%	12,230	17,686,085	17,381,210	98%
	2018	16,584,881	14,915,919	90%	11,453	16,943,109	15,246,960	90%
	2019 2020	21,635,093 21,259,154	13,854,242 14,528,844	64% 68%	10,815 10,478	21,177,662 19,940,272	13,553,978 13,605,341	64% 68%
	2020	20,250,144	15,374,313	76%	10,478	18,201,734	13,781,855	76%
	2022	19,223,445	16,303,022	85%	9,804	16,559,956	13,991,101	84%
	2023	17,927,764	17,248,973	96%	9,467	14,804,433	14,172,897	96%
	2024	16,660,658	18,238,088	109%	9,129	13,191,034	14,348,879	109%
	2025 2026	15,616,201	19,235,735	123%	8,791	11,855,549	14,491,777	122% 137%
	2026	14,665,392 13,770,472	20,259,628 21,312,281	138% 155%	8,452 8,113	10,676,913 9,614,426	14,616,283 14,724,869	153%
	2028	12,812,749	22,381,518	175%	7,775	8,578,524	14,809,931	173%
	2029	11,985,579	23,585,415	197%	7,435	7,698,060	14,948,152	194%
Projected	2030	11,186,480	24,895,126	223%	7,095	6,893,647	15,114,083	219%
Future	2031	10,409,197	26,166,420	251%	6,753	6,155,836	15,219,605	247%
Experience (60 Years)	2032 2033	9,652,801 8,921,121	27,373,655 28,511,895	284% 320%	6,412 6,071	5,479,241 4,861,568	15,256,362 15,229,389	278% 313%
(00 Tears)	2033	8,214,129	29,533,389	360%	5,733	4,298,373	15,121,086	352%
	2035	7,533,382	30,400,729	404%	5,397	3,786,339	14,922,657	394%
	2036	6,880,243	31,079,561	452%	5,065	3,322,207	14,628,581	440%
	2037	6,256,310	31,563,926	505%	4,738	2,902,986	14,248,853	491%
	2038	5,663,227	31,856,337	563%	4,418	2,525,858	13,795,357	546%
	2039 2040	5,102,293 4,574,551	31,904,775 31,756,564	625% 694%	4,106 3,804	2,188,000 1,886,638	13,256,458 12,662,159	606% 671%
	2041	4,080,925	31,368,975	769%	3,512	1,619,122	12,005,053	741%
	2042	3,622,199	30,775,862	850%	3,232	1,382,919	11,307,393	818%
	2043	3,198,744	29,946,245	936%	2,965	1,175,517	10,564,898	899%
	2044	2,810,339	28,983,971	1,031%	2,712	994,380	9,819,749	988%
	2045	2,456,408	27,839,876	1,133%	2,474	837,058	9,059,673	1,082%
	2046 2047	2,136,091 1,848,174	26,536,951 25,091,168	1,242% 1,358%	2,250 2,041	701,212 584,598	8,296,488 7,538,210	1,183% 1,289%
	2047	1,591,211	23,529,960	1,479%	1,847	485,101	6,794,076	1,401%
	2049-2053	5,053,403	93,601,788	1,852%	6,840	1,399,513	24,206,999	1,730%
	2054-2058	2,122,719	58,478,222	2,755%	3,981	492,401	12,475,618	2,534%
	2059-2063	823,609	33,879,985	4,114%	2,230	160,900	6,003,697	3,731%
	2064-2068	297,925	17,741,329	5,955%	1,141	49,435	2,635,697	5,332%
	2069-2073 2074-2078	100,887 32,623	8,207,544 3,281,626	8,135% 10,059%	491 162	14,342 3,988	1,034,831 362,893	7,215% 9,099%
	2017-2010	02,020	5,201,020	10,000 /0	102	5,300	302,033	3,03370
Histo	ry	341,208,228	156,334,605	46%	261,883	537,399,053	213,904,596	40%
Futur		300,375,643	966,627,936	322%	195,869	206,499,741	438,604,929	212%
Lifetin	ne	641,583,871	1,122,962,541	175%	457,752	743,898,793	652,509,525	88%

Exhibit B-1b

MedAmerica and Affinity Partners

Actual and Projected Experience using Current Assumptions by Calendar Year

Nationwide Experience Restated to Assume Implementation of the Originally Requested Rate Increases

Series 11 and Prior Policy Forms with a Lifetime Benefit Period

			Loss Ratio Demonstration					
ı		A	Without Interest	C = B / A	D	<b>W</b>	ith Max. Val. Inter	est G = F / E
		A	D	C = B / A	ט	E	Г	G-F/E
(	Calendar	Earned	Incurred	Incurred	End of Year	Earned	Incurred	Incurred
	Year	Premium	Claims	Loss Ratio	Lives	Premium	Claims	Loss Ratio
	1992	217	0	0%	2 16	895	0	0%
	1993 1994	9,165 77,720	0	0% 0%	48	32,606 257,091	0	0% 0%
	1995	181,369	5,697	3%	139	541,395	17,932	3%
	1996	395,761	96,296	24%	279	1,085,958	259,253	24%
	1997	749,280	0	0%	502	1,946,204	0	0%
	1998	1,202,904	0	0%	767	2,979,493	0	0%
	1999	1,818,242	460,544	25%	1,147	4,302,098	1,086,524	25%
	2000	2,607,379	51,212	2%	1,530	5,897,702	115,617	2%
	2001 2002	3,627,362 5,065,390	651,632 1,435,880	18% 28%	2,150 2,825	7,846,556 10,481,039	1,407,790 2,998,934	18% 29%
Historical	2002	6,527,659	1,688,863	26%	3,487	12,921,939	3,341,157	26%
Experience	2004	7,991,585	2,159,800	27%	3,832	15,134,313	4,088,836	27%
	2005	8,299,890	2,287,738	28%	3,861	15,040,397	4,144,540	28%
	2006	8,256,056	2,501,450	30%	3,825	14,308,884	4,336,561	30%
	2007	8,103,745	3,731,231	46%	3,761	13,432,719	6,189,984	46%
	2008	7,775,784	2,831,760	36%	3,674	12,333,260	4,495,494	36%
	2009	7,413,059	3,180,528	43%	3,592	11,251,787	4,831,753 9.271.650	43% 92%
	2010 2011	6,930,855 6,649,615	6,374,822 3,204,986	92% 48%	3,459 3,325	10,067,325 9,243,405	4,458,597	48%
	2011	7,779,749	5,082,142	65%	3,238	10,349,072	6.765.834	65%
	2013	7,123,928	3,720,661	52%	3,168	9,068,863	4,742,664	52%
	2014	6,250,581	6,833,873	109%	3,086	7,614,698	8,330,868	109%
	2015	5,700,309	10,949,151	192%	2,941	6,646,014	12,772,840	192%
	2016	5,193,157	8,062,388	155%	2,842	5,795,023	9,000,247	155%
	2017	4,845,653	9,778,716	202%	2,753	5,175,536	10,447,081	202%
	2018	5,657,873 9,994,972	7,825,374 9.547.413	138% 96%	2,608 2,416	5,783,470 9,777,925	7,999,634 9,339,612	138% 96%
	2019	10,104,471	10,080,578	100%	2,338	9,777,925	9,436,639	100%
	2021	9,643,083	10,753,094	112%	2,258	8,640,772	9,632,882	111%
	2022	9,165,259	11,437,097	125%	2,175	7,860,037	9,804,663	125%
	2023	8,651,547	12,097,810	140%	2,091	7,101,067	9,924,785	140%
	2024	8,105,980	12,787,456	158%	2,004	6,367,863	10,039,293	158%
	2025	7,627,284	13,427,405	176%	1,916	5,734,851	10,088,367	176%
	2026 2027	7,160,041 6,701,832	14,069,678 14,708,870	197% 219%	1,826 1,736	5,152,756 4,616,344	10,116,535 10,121,632	196% 219%
	2027	6,250,434	15,336,461	245%	1,646	4,121,027	10,121,032	245%
	2029	5,807,077	16,021,179	276%	1,556	3,664,840	10,097,915	276%
Projected	2030	5,372,549	16,766,095	312%	1,465	3,245,583	10,113,806	312%
Future	2031	4,948,993	17,447,129	353%	1,375	2,861,927	10,073,242	352%
Experience	2032	4,538,869	18,036,065	397%	1,286	2,512,669	9,967,045	397%
(60 Years)	2033	4,143,913	18,531,017	447%	1,198	2,196,153	9,802,246	446%
	2034 2035	3,766,190	18,966,378	504% 569%	1,112 1,028	1,910,904 1.655.321	9,603,486	503% 567%
	2036	3,407,516 3,068,603	19,373,481 19,623,229	639%	947	1,427,312	9,390,350 9,105,349	638%
	2037	2,749,793	19,792,357	720%	868	1,224,735	8,792,183	718%
	2038	2,451,790	19,775,892	807%	792	1,045,739	8,410,970	804%
	2039	2,175,110	19,650,285	903%	720	888,497	8,002,548	901%
	2040	1,919,412	19,328,603	1,007%	651	750,963	7,538,156	1,004%
	2041	1,684,497	18,861,848	1,120%	586	631,306	7,044,872	1,116%
	2042	1,470,098	18,208,703	1,239%	526 460	527,815	6,513,734	1,234%
	2043 2044	1,275,849 1,101,186	17,491,120 16,725,251	1,371% 1,519%	469 416	438,885 362,977	5,992,324 5,487,527	1,365% 1,512%
	2044	945,174	15,922,071	1,685%	368	298,570	5,003,118	1,676%
	2046	806,961	15,108,727	1,872%	324	244,312	4,546,683	1,861%
	2047	685,405	14,223,098	2,075%	284	198,901	4,099,038	2,061%
	2048	579,358	13,354,606	2,305%	247	161,158	3,685,649	2,287%
	049-2053	1,755,258	53,115,699	3,026%	813	437,302	12,980,720	2,968%
	054-2058	672,474	30,354,030	4,514%	358	135,425	5,980,342	4,416%
	059-2063 064-2068	226,739 65,200	13,823,464 5,314,747	6,097% 8,151%	136 45	36,685 8,439	2,183,125 674,647	5,951% 7,994%
	069-2073	16,361	1,616,340	9,879%	14	1,710	164,627	9,627%
	074-2078	3,810	460,490	12,085%	4	335	37,953	11,343%
History		126,234,286	82,914,744	66%	62,857	199,537,741	111,103,788	56%
Future		139,043,089	582,137,764	419%	37,993	95,701,567	273,896,206	286%
Lifetime	3	265,277,376	665,052,508	251%	100,850	295,239,307	384,999,994	130%

Exhibit B-2a

MedAmerica and Affinity Partners

Actual and Projected Experience using Current Assumptions by Calendar Year

Nationwide Experience Restated to Reflect Pennsylvania-Specific Rate Increase History and Request

Series 11 and Prior Policy Forms with a Non-Lifetime Benefit Period

			Loss Ratio Demonstration					
I		A	Without Interest B	C = B / A	D	E W	ith Max. Val. Inter	est G = F / E
			D	U-B/A	U	<b>E</b>		G-F/E
	Calendar	Earned	Incurred	Incurred	End of Year	Earned	Incurred	Incurred
	Year	Premium	Claims	Loss Ratio	Lives	Premium	Claims	Loss Ratio
	1992 1993	17,107 548,363	0 112,031	0% 20%	109 618	70,691 1,968,133	0 390,130	0% 20%
	1994	1,422,762	28,415	2%	1,328	4,743,366	93,904	2%
	1995	2,303,659	103,954	5%	1,804	7,074,477	310,846	4%
	1996	3,056,353	37,966	1%	2,352	8,681,349	104,007	1%
	1997	3,508,641	258,439	7%	2,382	9,405,579	722,059	8%
	1998 1999	3,868,205 4,639,240	631,867 1,009,169	16% 22%	2,680 3,364	9,845,945 11,206,370	1,628,343 2,463,156	17% 22%
	2000	5,901,199	1,121,780	19%	4,372	13,542,501	2,631,992	19%
	2001	7,826,358	1,379,844	18%	5,994	17,090,117	3,095,051	18%
	2002	10,551,853	2,694,010	26%	8,319	21,963,845	5,686,110	26%
Historical	2003	14,450,349	1,632,121	11%	13,894	28,712,002	, ,	11%
Experience	2004 2005	18,607,419	4,081,354	22% 23%	14,961	35,319,853	7,791,705	22% 23%
	2005	19,782,715 20,097,050	4,516,825 4,734,626	24%	16,067 15,962	35,912,350 34,852,938	8,251,874 8,263,665	23% 24%
	2007	19,834,507	6,850,962	35%	16,091	32,866,805	11,437,260	35%
	2008	19,643,967	5,323,056	27%	15,980	31,108,187	8,491,987	27%
	2009	19,085,365	7,968,212	42%	15,608	28,908,046	12,141,446	42%
	2010	18,306,690	9,450,936	52%	14,772	26,529,050	13,787,545	52%
	2011 2012	18,285,568 19,129,837	10,200,270 10,167,657	56% 53%	14,090 14,112	25,352,144 25,369,061	14,214,151 13,541,527	56% 53%
	2012	19,963,074	10,637,364	53%	13,859	25,309,001	13,567,908	54%
	2014	19,227,671	15,688,299	82%	13,493	23,347,774	19,134,334	82%
	2015	18,261,332	12,902,717	71%	13,044	21,228,321	15,049,880	71%
	2016	17,494,869	13,612,856	78%	12,945	19,469,213	15,194,627	78%
	2017	16,589,478	16,273,957	98%	12,230	17,685,527	17,381,210	98%
	2018 2019	16,459,725 17,513,868	14,915,919 13.952.604	91% 80%	11,453 10,911	16,814,642 17,143,807	15,246,960 13,650,231	91% 80%
	2019	18,871,627	14,539,196	77%	10,259	17,143,807	13,615,108	77%
	2021	19,864,099	15,009,723	76%	9,737	17,855,872	13,455,110	75%
	2022	19,071,050	15,859,914	83%	9,415	16,430,349	13,610,942	83%
	2023	17,770,716	16,776,521	94%	9,094	14,676,856	13,784,867	94%
	2024	16,499,513	17,736,162	107%	8,772	13,065,985	13,954,227	107%
	2025 2026	15,459,115 14,515,312	18,705,014 19,699,144	121% 136%	8,450 8,127	11,739,169 10,570,798	14,092,285 14,212,390	120% 134%
	2027	13,628,792	20,720,731	152%	7,804	9,518,824	14,316,773	150%
	2028	12,676,039	21,757,781	172%	7,482	8,490,353	14,397,979	170%
	2029	11,858,024	22,928,739	193%	7,158	7,619,596	14,532,916	191%
Projected	2030	11,068,252	24,199,948	219%	6,833	6,824,321	14,693,185	215%
Future Experience	2031 2032	10,300,213 9,552,820	25,434,851 26,609,194	247% 279%	6,507 6,181	6,094,950 5,426,051	14,795,478 14,831,985	243% 273%
(60 Years)	2032	8,829,959	27,717,556	314%	5,855	4,815,418	14,807,100	307%
(00 : 00.0)	2034	8,131,494	28,712,442	353%	5,531	4,258,595	14,703,105	345%
	2035	7,458,928	29,559,063	396%	5,210	3,752,288	14,512,220	387%
	2036	6,813,589	30,223,006	444%	4,892	3,293,274	14,228,500	432%
	2037	6,197,051 5,610,909	30,697,932	495% 552%	4,579 4,272	2,878,601 2,505,477	13,861,381	482% 536%
	2038 2039	5,610,909 5,056,419	30,987,496 31,040,908	552% 614%	3,973	2,505,477 2,171,109	13,422,942 12,901,718	536% 594%
	2040	4,534,619	30,903,391	681%	3,682	1,872,766	12,326,518	658%
	2041	4,046,405	30,532,233	755%	3,402	1,607,831	11,689,670	727%
	2042	3,592,538	29,960,585	834%	3,133	1,373,803	11,012,961	802%
	2043 2044	3,173,404	29,158,070	919%	2,876 2,632	1,168,215 988,576	10,292,130	881% 968%
	2044	2,788,806 2,438,197	28,227,147 27,116,869	1,012% 1,112%	2,402	832,476	9,568,750 8,829,824	1,061%
	2046	2,120,756	25,850,173	1,219%	2,186	697,620	8,087,155	1,159%
	2047	1,835,322	24,443,040	1,332%	1,985	581,802		1,263%
	2048	1,580,485	22,922,489	1,450%	1,798	482,941	6,623,755	1,372%
	2049-2053	5,022,153	91,143,862	1,815%	6,671	1,394,452	, ,	1,692%
	2054-2058 2059-2063	2,112,973 822,735	56,915,743 33,041,853	2,694% 4,016%	3,900 2,194	491,674 161,312	12,157,823 5,864,946	2,473% 3,636%
	2059-2063	299,171	17,394,595	5,814%	2, 194 1,126	49,832	2,588,563	5,036% 5,195%
	2069-2073	101,624	8,083,510	7,954%	485	14,496	1,020,301	7,038%
	2074-2078	32,791	3,225,799	9,837%	160	4,020	357,001	8,882%
							0.12.25	
Hist		338,863,355	156,334,605	46% 323%	261,883 189,675	534,397,399	213,904,596	40% 215%
Fut Lifet		291,249,768 630,113,123	941,787,282 1,098,121,887	323% 174%	189,675 451,558	198,554,800 732,952,199	427,742,345 641,646,941	215% 88%
Lilei		000,110,120	1,000,121,007	11770	401,000	102,002,100	071,070,041	00 /0

Exhibit B-2b
MedAmerica and Affinity Partners
Actual and Projected Experience using Current Assumptions by Calendar Year
Nationwide Experience Restated to Reflect Pennsylvania-Specific Rate Increase History and Request
Series 11 and Prior Policy Forms with a Lifetime Benefit Period

			Loss Ratio Demonstration					
			Without Interest B	C = B / A	D	W	ith Max. Val. Inter	est G = F / E
		Α	В	C = R \ A	ט	E	F	G=F/E
	Calendar	Earned	Incurred	Incurred	End of Year	Earned	Incurred	Incurred
	Year	Premium	Claims	Loss Ratio	Lives	Premium	Claims	Loss Ratio
	1992	217	0	0%	2	895	0	0%
	1993	9,165	0	0%	16	32,606	0	0%
	1994 1995	77,720 181,369	5,697	0% 3%	48 139	257,091 541,395	17,932	0% 3%
	1996	395,761	96,296	24%	279	1,085,958	259,253	24%
	1997	749,280	0	0%	502	1,946,204	0	0%
	1998	1,202,904	0	0%	767	2,979,493	0	0%
	1999	1,818,242	460,544	25%	1,147	4,302,098	1,086,524	25%
	2000	2,607,379	51,212	2%	1,530	5,897,702	115,617	2%
	2001 2002	3,627,362 5,065,390	651,632 1,435,880	18% 28%	2,150 2,825	7,846,556 10,481,039	1,407,790 2,998,934	18% 29%
Historical	2002	6,527,659	1,688,863	26%	3,487	12,921,939	3,341,157	26%
Experience	2004	7,991,585	2,159,800	27%	3,832	15,134,313	4,088,836	27%
·	2005	8,299,890	2,287,738	28%	3,861	15,040,397	4,144,540	28%
	2006	8,256,056	2,501,450	30%	3,825	14,308,884	4,336,561	30%
	2007	8,103,745	3,731,231	46%	3,761	13,432,719	6,189,984	46%
	2008 2009	7,775,784 7,413,059	2,831,760 3,180,528	36% 43%	3,674 3,592	12,333,260 11,251,787	4,495,494 4,831,753	36% 43%
	2010	6,962,184	6,374,822	92%	3,459	10,112,872	9,271,650	92%
	2011	6,927,030	3,204,986	46%	3,325	9,629,307	4,458,597	46%
	2012	7,066,341	5,082,142	72%	3,238	9,400,201	6,765,834	72%
	2013	6,922,721	3,720,661	54%	3,168	8,812,794	4,742,664	54%
	2014	6,250,261	6,833,873	109%	3,086	7,614,309	8,330,868	109%
	2015 2016	5,700,017 5,192,892	10,949,151 8,062,388	192% 155%	2,941 2,842	6,645,673 5,794,726	12,772,840 9,000,247	192% 155%
	2016	4,845,639	9,778,716	202%	2,753	5,175,521	10,447,081	202%
	2018	5,002,268	7,825,374	156%	2,608	5,113,293	7,999,634	156%
	2019	5,407,733	9,618,823	178%	2,483	5,290,325	9,409,477	178%
	2020	6,287,917	10,152,494	161%	2,300	5,887,214	9,504,000	161%
	2021	9,267,212	10,180,099	110%	2,129	8,304,145	9,119,644	110%
	2022 2023	9,310,568 8,781,418	10,720,630 11,337,172	115% 129%	2,052 1,973	7,984,903 7,207,968	9,190,548 9,300,896	115% 129%
	2024	8,216,010	11,983,613	146%	1,892	6,454,658	9,408,374	146%
	2025	7,728,568	12,583,334	163%	1,809	5,811,402	9,454,419	163%
	2026	7,254,441	13,187,963	182%	1,726	5,221,119	9,482,836	182%
	2027	6,790,344	13,793,275	203%	1,642	4,677,762	9,491,926	203%
	2028 2029	6,333,288	14,389,981	227%	1,557	4,176,118	9,477,212	227% 255%
Projected	2030	5,884,465 5,444,691	15,045,948 15,754,705	256% 289%	1,473 1,388	3,714,150 3,289,636	9,483,675 9,504,181	289%
Future	2031	5,016,186	16,408,770	327%	1,303	2,901,250	9,474,253	327%
Experience	2032	4,601,440	16,978,147	369%	1,220	2,547,763	9,382,970	368%
(60 Years)	2033	4,202,165	17,457,743	415%	1,137	2,227,464	9,235,097	415%
	2034	3,820,392	17,876,553	468%	1,056	1,938,824	9,052,246	467%
	2035 2036	3,457,873	18,275,983	529% 595%	977 901	1,680,179	8,858,962	527% 593%
	2037	3,115,337 2,793,105	18,529,487 18,712,861	670%	826	1,449,419 1,244,368	8,598,401 8,313,195	668%
	2038	2,491,831	18,720,375	751%	755	1,063,131	7,962,582	749%
	2039	2,212,037	18,626,667	842%	687	903,866	7,586,195	839%
	2040	1,953,388	18,344,292	939%	622	764,513	7,154,737	936%
	2041	1,715,644	17,924,943	1,045%	560	643,209	6,695,331	1,041%
	2042 2043	1,498,538 1,301,728	17,320,471 16,653,094	1,156% 1,279%	502 449	538,230 447,965	6,196,310 5,705,440	1,151% 1,274%
	2044	1,124,631	15,934,224	1,417%	399	370,859	5,228,100	1,410%
	2045	966,308	15,182,983	1,571%	353	305,377	4,770,909	1,562%
	2046	825,917	14,421,213	1,746%	310	250,162	4,339,780	1,735%
	2047	702,325	13,582,615	1,934%	272	203,902	3,914,425	1,920%
	2048	594,394	12,757,166	2,146%	237	165,414	3,520,651	2,128%
	2049-2053 2054-2058	1,807,689 699,585	50,785,150 29,148,775	2,809% 4,167%	782 345	450,463 140,825	12,408,869 5,739,186	2,755% 4,075%
	2059-2063	240,226	13,431,571	5,591%	132	38,812	2,119,167	5,460%
	2064-2068	70,869	5,214,124	7,357%	44	9,161	661,504	7,221%
	2069-2073	18,111	1,595,546	8,810%	13	1,895	162,462	8,574%
	2074-2078	4,267	456,888	10,708%	4	377	37,675	10,003%
110	ton	404 074 040	00 04 4 74 4	000/	60.057	100 000 000	144 400 700	F00/
Hist Fut		124,971,918 131,940,640	82,914,744 553,087,679	66% 419%	62,857 36,311	198,093,030 88,306,829	111,103,788 259,945,636	56% 294%
Life		256,912,558	636,002,423	248%	99,168	286,399,859	371,049,423	130%
Life		200,012,000	230,002,120	21070	30,100	_55,556,666	27 1,0 70, 120	10070

Address: 19 N Main St, Wilkes-Barre, Pennsylvania 18711

#### Supplement to the Series 11 and Prior Actuarial Memorandum

#### January 28, 2020

Product	<u>Number</u>		
Series 11 Individual			
Comprehensive Form	LTQ11-336-PA-998		
Facility Only Form	NTQ11-337-PA-998		
Home Health Only Form	HTQ11-338-PA-998		
Franchise Comprehensive Form	FLQ11-336-PA-998		

The experience provided in this supplement to the actuarial memorandum captures the pooled nationwide experience of the above-listed policy form(s) and similar individual and group policy forms of the same product series issued nationwide by MedAmerica Insurance Company (MedAmerica) and its affinity partners. Section 15 of the actuarial memorandum provides a description as to the appropriateness of pooling the experience of these policy forms. Pennsylvania-specific experience is not considered fully credible, but is being provided as required.

#### A. Purpose of Supplement

This supplement has been prepared for the purpose of demonstrating that the requested rate increase is in compliance with Chapter 18 Section 3803(c) and (e), and Reg. 89.83 of the Insurance Regulations for the state of Pennsylvania. It may not be appropriate for other purposes.

#### B. Demonstration of Compliance with Chapter 18 Section 3803

(c) and (e): We believe that we comply with these subsections of the regulation by submitting these rates before they are being used.

#### C. Demonstration of Compliance with Reg. 89.83

- 89.83 (a): This subsection requires no action.
- 89.83 (b): This subsection is not applicable since this filing is not for rates for a new policy form.
- 89.83 (c): Revision of Current Rates
- (1): For policies issued prior to September 16, 2002, the effective date of rate stability in Pennsylvania, the minimum loss ratio requirement is 60%, as specified in Reg. 89a.117.(b). For policies issued on or after September 16, 2002, the loss ratio requirements are specified in Reg. 89a.118.(c)(2), (i.e., the 58%/85% test). Demonstration of satisfaction of these requirements is discussed in Section 15 of the enclosed actuarial memorandum.

As of December 31, 2018, 143 of the 366 policies that are in force and subject to the requested rate increase in Pennsylvania for MedAmerica and its affinity partners were issued on or after September 16, 2002 (approximately 39%). However, because the company manages this block of business as a whole, this rate increase filing complies with both sets of requirements for all of the policies, regardless of issue date.

- (2): Section 3 of the actuarial memorandum provides a description of benefits. Copies of the affected policy forms may be provided upon request.
- (2)(i): The primary reason why these forms are in need of a premium rate increase is due to emerging experience running more adverse than expected in pricing.

This rate increase request is a follow-up to two prior nationwide requests. However, because this jurisdiction did not allow full implementation of the prior requested increases, the rate level being requested in this follow-up filing was determined to be actuarially equivalent as described in Appendix B to the enclosed actuarial memorandum. The company is seeking this current rate increase request to help alleviate the adverse performance on this block of business. The cumulative rate increase levels were determined to vary by benefit period to better align the rate increase with the adverse experience. The table in Section 2 of the enclosed actuarial memorandum provides the average prior, requested, and cumulative increase by benefit period based on the nationwide distribution. The enclosed cover

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letter provides similar information on a Pennsylvania-specific distribution.

The current rate schedules along with the proposed rate schedules are enclosed with this filing. Please note that the actual rates implemented may vary slightly from those shown due to rounding algorithms.

Exhibit I of the actuarial memorandum provides nationwide earned premium and incurred claim actual and projected experience using current assumptions, as described in Section 6 of the actuarial memorandum. Attachment 1 to this supplement provides nationwide written premium and paid claim actual and projected experience using current assumptions. Values in Exhibit I and Attachment 1 are shown both before and after the requested rate increase. The interest rate used in Exhibit I and Attachment 1 to accumulate and discount values is the maximum valuation interest rate for contract reserves applicable for the year of issue (which ranges from 3.5% to 5.5%, and averages 4.5%).

Attachments 2 and 3 to this supplement provide similar information as Exhibit I and Attachment 1 respectively, except provides Pennsylvania-specific experience.

(2)(ii)(A): There have been three rate increases approved and implemented on these policy forms in Pennsylvania. The cumulative prior approved increase is 100% and has been implemented on the individual and group policy forms. The most recent rate increase was filed for use by the Department on December 4. 2018.

(2)(ii)(B): Table 1a shows the original pricing commission scales by issue age and duration for lifetime-pay individual policies.

Table 1a
Commission Percentages by Issue Age and Duration<sup>[1]</sup>

Commission referred		<u> </u>	ssions by D	uration
	Issue	Commi		
Individual Policy Form	Ages	1	2-10	11+
LTC-LBP-2PA LTC-LBP8-MA-PA LTC-CD5-2PA LTC-CD8-MA-PA	<71 71-79 80+	45-78% 40-68 35-58	10-21% 8-18 5-15	0-5% 0-5 0-5
LTC-CD9-MA-PA	All Ages	30-50	5-10	5-10
LTQ11-336-PA-998 NTQ11-337-PA-998 HTQ11-338-PA-998 LTQ11-336-MA-PA-998 NTQ11-337-MA-PA-998 HTQ11-338-MA-PA-998 LTQ11-336-MA-PA-601 HTQ11-338-MA-PA-601 NTQ11-337-MA-PA-601	<75 75+	30-50 20-40	5-10 5-10	0-10 0-10
FLQ11-336-PA-998	<75	25-45	0-5	0-5
FLQ11-336-MA-PA-601	75+	15-35	0-5	0-5

<sup>[1]</sup> The maximum writing agent commissions are 50% in the first policy year and 10% for policy years two through ten.

Table 1b provides similar information for lifetime-pay group certificates by duration and whether the group was sold by a commissioned agent. The commission scale, without other sales and marketing expenses, was not readily available.

Table 1b
Commission Percentages by Duration and Agent Type
Group Policy Forms: GRP11-341-MA-PA-601 and GRP11-341-PA-200

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Duration	Commissioned	Non-Commissioned					
1	30%	40%					
2+	7	0					

Commissions for limited-pay policies are reduced to levels that are approximately equivalent to the

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above commissions for lifetime-pay policies and certificates, on a present value basis, based on original pricing assumptions.

The actual commission scales will differ slightly from those that appear in Table 1 as the company adjusts renewal commission rates so that the total commissions paid before and after any increase in premium are similar (i.e., commissions are not paid on the increased premium).

(2)(ii)(C)(I): Premiums earned and written since inception for nationwide experience can be found in Exhibit I of the actuarial memorandum and Attachment 1 to this supplement, respectively. Premiums earned and written since inception for Pennsylvania-specific experience can be found in Attachments 2 and 3, respectively. Attachment 4 to this supplement provides reserve balances and the calculation basis for both nationwide and Pennsylvania-specific experience.

(2)(ii)(C)(II): Attachment 4 to this supplement provides a breakdown of historical incurred claims and active life reserve balance, including a description of the calculation basis, for both nationwide and Pennsylvania-specific experience.

Attachment 5 to this supplement provides actual and projected experience on a durational basis using current assumptions. Included are policy year earned premiums, incurred claims, durational loss ratios, end of year lives, and cumulative loss ratios with interest. Values in Attachment 5 are shown both before and after the requested rate increase. The number of durations shown was chosen to capture the majority of the durations underlying Exhibit I. Similar to Exhibit I and Attachments 1 through 3, the values used to calculate the cumulative loss ratios are accumulated and discounted at the maximum valuation interest rate.

Attachment 6 to this supplement provides similar information to Attachment 5 for Pennsylvania-specific experience.

(2)(ii)(D): We believe that we have provided information sufficient to support the rate increase requested in this filing.

(2)(iii): We understand that data used in this rate increase filing is in agreement with those used in the annual statement filed with the department.

89.83 (d): We believe the proposed rate tables provided with this filing comply with this subsection.

#### D. Description of Attachments and Enclosures

An Excel workbook containing the values shown in Exhibits I and II of the actuarial memorandum and Attachments 1 through 6 of this supplement is enclosed with this filing, as required.

Attachment 1: Nationwide Actual and Projected Written Premium and Paid Claims

Attachment 2: Pennsylvania-Specific Actual and Projected Experience

Attachment 3: Pennsylvania-Specific Actual and Projected Written Premium and Paid Claims

Attachment 4: Nationwide and Pennsylvania-Specific Claims and Reserves Balance

Attachment 5: Nationwide Actual and Projected Experience by Policy Year

Attachment 6: Pennsylvania-Specific Actual and Projected Experience by Policy Year

Enclosure: Exhibits and Attachments in Excel

### Attachment 1-a MedAmerica and Affinity Partners Written Premium and Paid Claim Experience and Projections by Calendar Year Nationwide Experience Before Requested Rate Increase Series 11 and Prior Policy Forms

		Loss Ratio Demonstration						
,			Without Interest	0.5/4			ith Max. Val. Inter	
		Α	В	C = B / A	D	E	F	G = F / E
	Colondar	\\/ritta=	Doid		End of Voca	\\/rittan	Deid	
	Calendar Year	Written Premium	Paid Claims	Loss Ratio	End of Year Lives	Written Premium	Paid Claims	Loss Ratio
<del> </del>	1992	127,778	Ciairis 0	LUSS RAIIO 0%	111	528,014	Ciairis	0%
	1993	820,223	435	0%	634	2,892,148	1,704	0%
	1994	1,860,053	45,498	2%	1,376	6,186,565		2%
	1995	2,807,204	63,694	2%	1,943	8,461,960		2%
	1996	3,860,398	75,596	2%	2,631	10,841,396	222,763	2%
	1997	4,389,921	67,538	2%	2,884	11,679,201	183,531	2%
	1998	5,364,467	119,007	2%	3,447	13,542,968	293,855	2%
	1999	6,974,010	465,964	7%	4,511	16,721,331	1,147,579	7%
	2000	9,116,370	970,921	11%	5,902	20,807,941	2,284,255	11%
	2001	12,304,751	1,099,511	9%	8,144	26,766,424	2,473,974	9%
Historical	2002 2003	16,753,833	1,409,215 2,447,610	8% 11%	11,144 17,381	34,790,343 45,353,474	3,015,109 4,965,502	9% 11%
Experience	2003	22,861,236 27,076,694	2,961,056	11%	18,793	51,352,517	5,685,432	11%
Lxperience	2005	28,194,082	4,173,584	15%	19,928	51,151,960		15%
	2006	28,224,166	5,080,854	18%	19,787	48,919,589	8,864,030	18%
	2007	27,867,712	6,524,442	23%	19,852	46,164,208	10,882,302	24%
	2008	27,181,390	8,229,180	30%	19,654	43,055,810	13,122,401	30%
	2009	26,260,881	8,193,848	31%	19,200	39,794,144	12,490,954	31%
	2010	24,818,211	9,020,531	36%	18,231	35,982,914	13,150,630	37%
	2011	24,333,772	11,119,523	46%	17,415	33,762,341	15,503,281	46%
	2012	24,926,454	12,962,544	52%	17,350	33,084,474	17,284,350	52%
	2013	23,349,718	15,145,324	65%	17,027	29,653,540		65%
	2014	21,831,062	17,042,823	78%	16,579	26,532,111	20,785,577	78%
	2015 2016	21,109,970 20,713,370	19,884,954 20.495.043	94% 99%	15,985 15,787	24,558,913 23,067,887	23,203,645 22,882,053	94% 99%
	2017	19,849,697	22,045,813	111%	14,983	21,172,900		111%
	2018	19,401,093	23,700,530	122%	14,061	19,823,580	24,226,943	122%
	2019	19,528,687	24,421,664	125%	13,223	19,112,488		125%
	2020	20,077,894	23,240,437	116%	12,791	18,823,912		116%
	2021	19,811,910	25,414,033	128%	12,374	17,793,400	22,772,536	128%
	2022	18,954,715	24,600,757	130%	11,953	16,308,937	21,098,433	129%
	2023	17,600,131	26,419,277	150%	11,530	14,510,777		149%
	2024	16,504,273	28,115,328	170%	11,105	13,039,771	22,092,328	169%
	2025	15,480,769	29,752,161	192%	10,677	11,722,299 10,568,592	22,379,542	191%
	2026 2027	14,561,918 13,612,117	31,431,403 33,171,917	216% 244%	10,249 9,820	9,468,364	22,633,546 22,868,373	214% 242%
	2028	12,726,546	34,965,560	275%	9,391	8,485,730	23,078,085	272%
	2029	11,888,563	36,801,695	310%	8,961	7,600,140	23,256,428	306%
Projected	2030	11,074,471	38,715,122	350%	8,529	6,788,891	23,425,874	345%
Future	2031	10,280,786	40,680,993	396%	8,098	6,044,421	23,570,921	390%
Experience	2032	9,509,480	42,653,522	449%	7,668	5,363,050	23,667,115	441%
(60 Years)	2033	8,763,718	44,590,357	509%	7,240	4,741,899	23,696,226	500%
	2034	8,044,995	46,451,976	577%	6,816	4,177,191	23,644,873	566%
	2035	7,355,167	48,206,595	655%	6,397	3,665,533	23,506,192	641%
	2036	6,695,601	49,799,651	744%	5,984	3,203,448	23,264,596	726%
	2037	6,067,784	51,191,569	844%	5,580	2,787,689	22,914,741	822%
	2038	5,473,642	52,340,035	956%	5,186 4,803	2,415,373	22,452,047	930%
	2039 2040	4,914,271 4,390,218	53,209,679 53,765,987	1,083% 1,225%	4,803 4,433	2,083,396 1,788,630		1,050% 1,185%
	2040	3,902,164	53,765,967	1,383%	4,433	1,528,203	20,396,533	1,335%
	2042	3,450,634	53,834,586	1,560%	3,739	1,299,380	19,504,364	1,501%
	2043	3,035,809	53,322,910	1,756%	3,417	1,099,497	18,527,187	1,685%
	2044	2,657,113	52,475,082	1,975%	3,113	925,832		1,889%
	2045	2,313,709	51,316,604	2,218%	2,827	775,805		2,115%
	2046	2,004,461	49,878,882	2,488%	2,560	646,960	15,297,790	2,365%
	2047	1,727,948	48,178,671	2,788%	2,313	536,979	14,177,989	2,640%
	2048	1,482,485	46,249,003	3,120%	2,084	443,678	13,060,432	2,944%
	2049-2053	4,670,504	196,724,866	4,212%	7,616	1,267,350	49,448,439	3,902%
1	2054-2058	1,939,223	134,686,083	6,945%	4,321	438,785		6,307%
	2059-2063 2064-2068	743,203	80,759,946 43,467,975	10,866% 16,460%	2,358	140,992		9,666% 14,313%
	2064-2068	264,083 87,167	20,910,758	23,989%	1,183 504	42,421 12,001	6,071,806 2,446,130	20,382%
	2074-2078	27,174	9,028,238	33,223%	165	3,239	899,992	27,784%
	_37 1 2070	21,114	3,020,200	00,22070	103	3,239	033,332	21,104/0
Histor	ry	452,378,514	193,345,039	43%	324,740	726,648,653	253,518,823	35%
Futur		291,623,334	1,734,755,070	595%	233,084	199,655,053		369%
Lifetim	ne	744,001,848	1,928,100,109	259%	557,824	926,303,706	989,272,843	107%

## Attachment 1-b MedAmerica and Affinity Partners Written Premium and Paid Claim Experience and Projections by Calendar Year Nationwide Experience After Requested Rate Increase Series 11 and Prior Policy Forms

		Loss Ratio Demonstration						
			Without Interest		_		ith Max. Val. Inter	
		Α	В	C = B / A	D	E	F	G = F / E
	Colordor	\\/ritta=	Doid		End of Voca	\\/rittan	Deid	
	Calendar Year	Written Premium	Paid Claims	Loss Ratio	End of Year Lives	Written Premium	Paid Claims	Loss Ratio
	1992	127,778	Ciairis 0	0%	111	528,014	Ciairis	LUSS RAIIU
	1993	820,223	435	0%	634	2,892,148	1,704	0%
	1994	1,860,053	45,498	2%	1,376	6,186,565		2%
	1995	2,807,204	63,694	2%	1,943	8,461,960		2%
	1996	3,860,398	75,596	2%	2,631	10,841,396	222,763	2%
	1997	4,389,921	67,538	2%	2,884	11,679,201	183,531	2%
	1998	5,364,467	119,007	2%	3,447	13,542,968	293,855	2%
	1999	6,974,010	465,964	7%	4,511	16,721,331	1,147,579	7%
	2000	9,116,370	970,921	11%	5,902	20,807,941	2,284,255	11%
	2001	12,304,751	1,099,511	9% 8%	8,144	26,766,424	2,473,974	9% 9%
Historical	2002 2003	16,753,833 22,861,236	1,409,215 2,447,610	11%	11,144 17,381	34,790,343 45,353,474	3,015,109 4,965,502	9% 11%
Experience	2003	27,076,694	2,961,056	11%	18,793	51,352,517	5,685,432	11%
Experience	2005	28,194,082	4,173,584	15%	19,928	51,151,960		15%
	2006	28,224,166	5,080,854	18%	19,787	48,919,589	8,864,030	18%
	2007	27,867,712	6,524,442	23%	19,852	46,164,208	10,882,302	24%
	2008	27,181,390	8,229,180	30%	19,654	43,055,810	13,122,401	30%
	2009	26,260,881	8,193,848	31%	19,200	39,794,144	12,490,954	31%
	2010	24,818,211	9,020,531	36%	18,231	35,982,914	13,150,630	37%
	2011	24,333,772	11,119,523	46%	17,415	33,762,341	15,503,281	46%
	2012	24,926,454	12,962,544	52%	17,350	33,084,474	17,284,350	52%
	2013	23,349,718	15,145,324	65%	17,027	29,653,540	19,317,615	65%
	2014	21,831,062	17,042,823	78%	16,579	26,532,111	20,785,577	78%
	2015	21,109,970	19,884,954	94% 99%	15,985	24,558,913	23,203,645	94%
	2016 2017	20,713,370 19,849,697	20,495,043 22,045,813	111%	15,787 14,983	23,067,887 21,172,900	22,882,053 23,551,277	99% 111%
	2017	19,401,093	23,700,530	122%	14,963	19,823,580	24,226,943	122%
	2019	19,529,713	24,421,664	125%	13.223	19,113,492		125%
	2020	22,377,837	23,199,234	104%	12,481	20,978,581	21,720,319	104%
	2021	27,377,705	25,064,780	92%	11,712	24,585,682		91%
	2022	27,711,554	23,885,634	86%	11,247	23,837,570	20,484,911	86%
	2023	25,978,086	25,303,746	97%	10,850	21,410,010	20,771,352	97%
	2024	24,333,078	26,635,837	109%	10,456	19,215,929	20,929,232	109%
	2025	22,806,367	27,945,605	123%	10,059	17,259,138	21,019,976	122%
	2026	21,427,098	29,329,643	137%	9,662	15,540,157	21,119,305	136%
	2027	19,996,297	30,803,306	154%	9,263	13,897,435		153%
	2028 2029	18,664,959 17,407,669	32,355,767 33,969,194	173% 195%	8,864 8,464	12,433,211 11,116,094	21,354,606	172% 193%
Projected	2030	16,188,033	35,671,561	220%	8,062	9,911,262	21,465,407 21,583,104	218%
Future	2031	15,000,871	37,436,772	250%	7,660	8,807,262		246%
Experience	2032	13,849,464	39,220,460	283%	7,259	7,798,626	, ,	279%
(60 Years)	2033	12,738,806	40,982,331	322%	6,859	6,881,037	21,777,267	316%
,	2034	11,671,210	42,684,823	366%	6,462	6,048,723	21,725,561	359%
	2035	10,649,451	44,297,466	416%	6,070	5,296,458	21,598,063	408%
	2036	9,675,429	45,769,261	473%	5,683	4,618,841	21,379,504	463%
	2037	8,750,988	47,062,478	538%	5,304	4,010,731	21,063,921	525%
	2038	7,878,696	48,137,008	611%	4,933	3,467,595	20,646,246	595%
	2039	7,059,865	48,958,917	693%	4,573	2,984,599	20,125,659	674%
	2040	6,294,897	49,494,894	786%	4,225	2,556,862		763%
	2041 2042	5,584,449 4,928,909	49,718,884	890%	3,890	2,179,938	18,781,701 17,968,673	862% 971%
	2042	4,328,208	49,608,826 49,163,329	1,006% 1,136%	3,570 3,265	1,849,598 1,561,766	17,968,673	1,093%
	2043	3,781,179	48,408,273	1,280%	2,977	1,312,304	16,126,557	1,229%
	2045	3,286,363	47,366,173	1,441%	2,707	1,097,332		1,379%
	2046	2,841,854	46,064,386	1,621%	2,454	913,168	14,121,049	1,546%
	2047	2,445,310	44,516,276	1,820%	2,219	756,341	13,093,009	1,731%
	2048	2,094,084	42,751,803	2,042%	2,002	623,608	12,065,377	1,935%
	2049-2053	6,564,650	182,025,176	2,773%	7,336	1,771,336		2,581%
	2054-2058	2,696,669	124,792,505	4,628%	4,186	605,708	25,617,857	4,229%
	2059-2063	1,017,239	74,926,836	7,366%	2,296	191,287	12,632,522	6,604%
	2064-2068	354,090	40,465,506	11,428%	1,156	56,373	5,646,759	10,017%
	2069-2073	114,832	19,559,428	17,033%	493	15,690		14,560%
	2074-2078	35,584	8,469,068	23,800%	161	4,214	842,128	19,984%
⊔i∽ŧ	ony	AEO 270 E4 A	103 345 030	43%	324,740	726 640 6F2	252 540 022	35%
Hist Futı	•	452,378,514 407,441,492	193,345,039 1,610,466,850	395%	324,740 222,083	726,648,653 274,707,954	253,518,823 686,411,599	250%
Lifeti		859,820,006	1,803,811,889	210%	546,823	1,001,356,608	939,930,422	94%
Liieli		553,520,000	1,000,011,009	21070	J+U,UZJ	1,001,000,000	JJJ,JJU,422	547

Attachment 2-a
MedAmerica and Affinity Partners
Actual and Projected Experience using Current Assumptions by Calendar Year
Pennsylvania-Specific Experience Before Requested Rate Increase
Series 11 and Prior Policy Forms

		Loss Ratio Demonstration						
			Vithout Interest	O = D / A	Б.		th Max. Val. Intere	
		Α	В	C = B / A	D	E	F	G = F / E
	Calendar	Earned	Incurred	Incurred	End of Year	Earned	Incurred	Incurred
	Year	Premium	Claims	Loss Ratio	Lives	Premium	Claims	Loss Ratio
	1992	17,324	0	0%	111	71,586	0	0%
	1993	547,119	112,031	20%	580	1,964,618	390,130	20%
	1994	1,333,538	28,415	2%	1,190	4,448,749	93,904	2%
	1995	1,802,548	55,039	3%	1,165	5,625,311	173,228	3%
	1996	1,608,703	5,871	0%	1,055	4,748,422	17,599	0%
	1997	1,439,865	114,890	8%	953	4,045,710	327,984	8%
	1998	1,347,126	235,553	17%	912	3,606,337	647,151	18%
	1999	1,286,732	377,829	29%	872	3,277,009	963,438	29%
	2000	1,267,260	481,212	38%	859	3,064,161	1,177,031	38%
	2001	1,235,696	713,556	58%	895	2,838,559	1,625,076	57% 53%
Historical	2002 2003	1,431,381 1,554,846	745,816 464,534	52% 30%	1,036 1,078	3,097,925 3,191,638	1,652,554 973,026	30%
Experience	2004	1,652,124	958,964	58%	1,139	3,221,077	1,853,988	58%
Experience	2005	1,597,784	656,165	41%	1,089	2,969,432	1,257,626	42%
	2006	1,498,700	751,072	50%	1,021	2,658,309	1,353,897	51%
	2007	1,403,330	940,403	67%	983	2,375,585	1,626,310	68%
	2008	1,324,472	815.074	62%	906	2,140,929	1,331,566	62%
	2009	1,241,850	777,589	63%	858	1,917,009	1,223,373	64%
	2010	1,132,473	817,263	72%	720	1,668,206	1,236,321	74%
	2011	1,041,535	1,478,296	142%	664	1,463,678	2,101,336	144%
	2012	1,071,361	1,289,377	120%	605	1,438,423	1,741,098	121%
	2013	1,063,820	974,481	92%	553	1,364,684	1,268,109	93%
	2014	996,939	1,541,550	155%	516	1,221,778	1,895,619	155%
	2015	911,937	2,274,579	249%	472	1,067,859	2,654,582	249%
	2016	835,842	454,863	54%	440	935,274	510,184	55%
	2017	774,903	1,455,496	188%	408	828,771	1,559,288	188%
	2018	741,932	520,614	70%	366	758,712	532,890	70%
	2019 2020	792,713	872,369 863,021	110%	339	775,209	852,776	110% 105%
	2021	824,116 772,016	868,006	105% 112%	320 302	770,809 690,717	806,362 775,433	112%
	2022	717,452	882,917	123%	286	614,090	754,348	123%
	2023	659,363	896,733	136%	270	539,966	732,900	136%
	2024	570,064	918,101	161%	255	446,641	717,899	161%
	2025	474,417	943,584	199%	241	355,616	705,939	199%
	2026	436,976	978,344	224%	227	313,461	700,417	223%
	2027	399,384	1,016,242	254%	214	274,080	696,210	254%
	2028	366,157	1,057,483	289%	201	240,434	693,346	288%
	2029	336,019	1,112,585	331%	189	211,156	698,165	331%
Projected	2030	307,518	1,169,245	380%	178	184,938	702,243	380%
Future	2031	280,524	1,218,791	434%	166	161,453	700,561	434%
Experience	2032	254,935	1,261,027	495%	155	140,420	693,782	494%
(60 Years)	2033	230,690	1,303,467	565%	145	121,607	686,344	564%
	2034 2035	207,772	1,332,322	641% 734%	135 125	104,821 89,897	671,514	641% 733%
	2036	186,186 165,905	1,366,666 1,382,265	833%	115	76,666	659,339 638,308	833%
	2037	146,943	1,380,982	940%	106	64,989	610,488	939%
	2038	129,315	1,364,125	1,055%	97	54,738	577,319	1,055%
	2039	113,036	1,326,467	1,173%	89	45,794	537,417	1,174%
	2040	98,122	1,271,448	1,296%	81	38,046	493,167	1,296%
	2041	84,533	1,201,383	1,421%	73	31,370	446,131	1,422%
	2042	72,246	1,128,895	1,563%	66	25,660	401,354	1,564%
	2043	61,243	1,058,993	1,729%	60	20,818	360,479	1,732%
	2044	51,479	994,916	1,933%	53	16,748	324,251	1,936%
	2045	42,887	924,564	2,156%	47	13,353	288,472	2,160%
	2046	35,406	855,816	2,417%	42	10,550	255,635	2,423%
	2047	28,964	785,668	2,713%	37	8,259	224,668	2,720%
	2048	23,475	717,949	3,058%	32 105	6,406	196,536	3,068%
	2049-2053 2054-2058	62,019 16,595	2,530,429 1,051,174	4,080% 6,334%	105 42	15,170 3,271	615,738 206,935	4,059% 6,326%
	2054-2058	3,294	299,687	9,099%	13	3,271 524	206,935 47,541	6,326% 9,076%
	2064-2068	3,294 450	57,859	12,858%	3	58	7,406	9,076% 12,822%
	2069-2073	36	6,549	18,293%	0	4	678	18,188%
	2074-2078	1	372	29,754%	0	0	31	29,607%
1	20 20.0	<u> </u>	072	20,70770				20,00770
Hist	tory	32,161,140	19,040,533	59%	21,446	66,009,753	30,187,308	46%
		0.050.054	00 400 440	4070/	4 000	0.407.707	40 400 404	0000/
Futu Lifeti		8,952,251 41,113,391	36,400,442 55,440,975	407% 135%	4,808 26,254	6,467,737 72,477,491	18,480,134 48,667,442	286% 67%

## Attachment 2-b MedAmerica and Affinity Partners Actual and Projected Experience using Current Assumptions by Calendar Year Pennsylvania-Specific Experience After Requested Rate Increase Series 11 and Prior Policy Forms

				Los	s Ratio Demonsti			
			Without Interest				ith Max. Val. Intere	
		Α	В	C = B / A	D	E	F	G = F / E
	Calendar	Earned	Incurred	Incurred	End of Year	Earned	Incurred	Incurred
	Year	Premium	Claims	Loss Ratio	Lives	Premium	Claims	Loss Ratio
	1992	17,324	Ciairis	0%	111	71,586	Ciairiis 0	LUSS RAIIO
	1993	547,119	112,031	20%	580	1,964,618	390.130	209
	1994	1,333,538	28,415	2%	1,190	4,448,749	93,904	29
	1995	1,802,548	55,039	3%	1,165	5,625,311	173,228	39
	1996	1,608,703	5,871	0%	1,055	4,748,422	17,599	09
	1997	1,439,865	114,890	8%	953	4,045,710	327,984	89
	1998	1,347,126	235,553	17%	912	3,606,337	647,151	189
	1999	1,286,732	377.829	29%	872	3,277,009	963,438	299
	2000	1,267,260	481,212	38%	859	3,064,161	1,177,031	389
	2001	1,235,696	713,556	58%	895	2,838,559	1,625,076	579
	2002	1,431,381	745,816	52%	1,036	3,097,925	1,652,554	539
Historical	2003	1,554,846	464,534	30%	1,078	3,191,638	973,026	309
Experience	2004	1,652,124	958,964	58%	1,139	3,221,077	1,853,988	589
	2005	1,597,784	656,165	41%	1,089	2,969,432	1,257,626	429
	2006	1,498,700	751,072	50%	1,021	2,658,309	1,353,897	519
	2007	1,403,330	940,403	67%	983	2,375,585	1,626,310	689
	2008	1,324,472	815,074	62%	906	2,140,929	1,331,566	629
	2009	1,241,850	777,589	63%	858	1,917,009	1,223,373	649
	2010	1,132,473	817,263	72%	720	1,668,206	1,236,321	749
	2011	1,041,535	1,478,296	142%	664	1,463,678	2,101,336	1449
	2012	1,071,361	1,289,377	120%	605	1,438,423	1,741,098	1219
	2013	1,063,820	974,481	92%	553	1,364,684	1,268,109	939
	2014	996,939	1,541,550	155%	516	1,221,778	1,895,619	1559
	2015	911,937	2,274,579	249%	472	1,067,859	2,654,582	2499
	2016	835,842	454,863	54%	440	935,274	510,184	559
	2017	774,903	1,455,496	188%	408	828,771	1,559,288	1889
	2018	741,932	520,614	70%	366	758,712	532,890	709
	2019	792,713	872,369	110%	339	775,209	852,776	1109
	2020	871,806	855,397	98%	310	815,439	799,232	989
	2021 2022	981,324	826,649	84% 90%	286 270	878,061	738,476 713,584	849 909
	2022	928,965 856,958	835,210 846,886	99%	270 256	795,196 701,846	692,155	99%
	2023	746,841	865,375	116%	242	585,210	676,665	1169
	2025	628,971	887,229	141%	228	471,533	663,768	1419
	2026	582,169	917,671	158%	215	417,673	656,966	1579
	2027	535,162	950,593	178%	203	367,322	651,216	1779
	2028	493,438	985,956	200%	191	324,074	646,424	1999
	2029	455,404	1,033,471	227%	180	286,235	648,487	2279
Projected	2030	419,253	1,082,292	258%	169	252,186	649.979	2589
Future	2031	384,794	1,124,330	292%	158	221,512	646,217	2929
Experience	2032	351,876	1,159,358	329%	148	193.859	637,795	3299
(60 Years)	2033	320,415	1,194,529	373%	138	168,943	628,926	3729
` '	2034	290,384	1,217,634	419%	128	146,533	613,655	4199
	2035	261,800	1,245,767	476%	119	126,435	600,961	4759
	2036	234,648	1,257,650	536%	110	108,457	580,717	5359
	2037	208,975	1,255,132	601%	101	92,444	554,819	6009
	2038	184,835	1,239,080	670%	93	78,255	524,377	6709
	2039	162,284	1,205,104	743%	85	65,759	488,240	7429
	2040	141,396	1,156,025	818%	78	54,835	448,404	8189
	2041	122,165	1,094,161	896%	71	45,343	406,335	8969
	2042	104,609	1,030,742	985%	64	37,159	366,489	9869
	2043	88,752	970,778	1,094%	57	30,173	330,491	1,0959
	2044	74,584	916,048	1,228%	52	24,267	298,592	1,2309
	2045	62,048	855,718	1,379%	46	19,320	267,038	1,3829
	2046	51,095	796,223	1,558%	41	15,226	237,880	1,5629
	2047	41,652	734,322	1,763%	36	11,878	210,029	1,7689
	2048	33,610	673,102	2,003%	31	9,172	184,300	2,009
	2049-2053	87,560	2,384,251	2,723%	102	21,429	580,240	2,708
	2054-2058	22,817	1,001,261	4,388%	41	4,499	197,119	4,3819
	2059-2063	4,437	288,047	6,492%	13	706	45,694	6,473
	2064-2068	587	56,137	9,567%	3	75	7,185	9,535
	2069-2073	44	6,451	14,794%	0	5	668	14,6789
	2074-2078	1	371	26,158%	0	0	31	26,028
Hist		32,161,140	19,040,533	59%	21,446	66,009,753	30,187,308	46
	uro	11,528,372	33,821,319	293%	4,606	8,146,268	17,245,929	212
Fut Lifet		43,689,512	52,861,852	121%	26,052	74,156,021	47,433,237	64

### Attachment 3-a MedAmerica and Affinity Partners Written Premium and Paid Claim Experience and Projections by Calendar Year Pennsylvania-Specific Experience Before Requested Rate Increase Series 11 and Prior Policy Forms

Calendar   Written   Paid   Cos Ratio				Loss Ratio Demonstration					
Calendar   Written   Penilum   Claims   Loss Ratio   End of Year   Written   Lives   Department   Lives   Written   Claims   Loss Ratio   Claims   Loss Ratio   Claims   Loss Ratio   Claims   Loss Ratio   Claims   Clai				Without Interest	O = D / A	Б			
Permium   Claims   Lose Ratio   Lives   Premium   Claims   Claim			A	В	C = B / A	D	E	F	G=F/E
Permium   Claims   Lose Ratio   Lives   Premium   Claims   Claim		Calendar	Written	Paid		End of Year	Written	Paid	
1992					Loss Ratio				Loss Ratio
1993			127,778	0	0%	111		0	0%
1996		1993		435	0%	580	2,723,433	1,704	0%
1996		1994	1,646,826	45,498		1,190	5,481,903	151,506	3%
1997   1,395,175   34,233   2%   953   3,919,656   97,726   22,200   1,998   1,891   1,991   1,891   1,991   1,891   1,991   1,891   1,991			1,722,034						4%
1998								,	4%
1999							, ,		2%
2000							, ,		0%
2001									
Historical 2003				,					
Historical 2003				,					42%
Experience   2004	Historical								49%
2005									41%
2006				,					43%
2008				,					58%
2009		2007	1,384,149	909,721	66%	983	2,342,450	1,557,986	67%
2010		2008	1,305,785	953,070	73%	906	2,110,532	1,569,764	74%
2011 1,044,143 922,011 88% 664 1,467,006 1,317,398 9.00 2012 1,065,337 1,110,217 104% 605 1,430,477 1,511,244 1068 2013 1,052,019 1,400,952 133% 553 1,349,191 1,814,559 134% 2014 970,770 1,346,909 139% 516 1,189,655 1,661,167 1400 2015 882,638 1,276,318 145% 472 1,033,315 1,501,042 145% 2016 818,490 1,151,366 141% 440 915,718 1,200,368 1419 2017 757,550 1,067,878 141% 408 810,160 1,143,200 1419 2018 745,820 1,098,408 147% 366 762,675 1,123,511 1479 2019 812,133 943,655 116% 339 794,213 922,626 116% 2020 806,830 902,288 112% 330 744,622 843,238 1122 2021 752,328 964,716 128% 302 673,187 861,836 128% 2022 663,421 904,626 130% 266 533,855 772,631 130% 2023 642,383 933,804 145% 270 526,134 762,610 1459 2024 456,039 989,016 210% 241 346,139 723,923 2109 2024 456,079 987,827 232% 227 346,922 730,492 730,03 2200 2028 364,2383 938,804 145% 270 526,134 762,610 1459 2026 460,359 989,016 210% 241 346,139 723,923 2109 2027 387,011 101,1720 261% 214 265,596 691,870 2609 2028 355,777 1,040,564 292% 201 233,864 880,953 2217 2028 355,777 1,040,564 292% 201 233,864 880,953 2217 2028 355,777 1,040,564 292% 201 233,864 880,953 2217 2029 326,255 1,074,221 329% 199 205,038 672,774 3289 2028 326,255 1,074,221 329% 199 205,038 672,774 3289 2029 326,255 1,074,221 329% 199 205,038 672,774 3289 2029 326,255 1,074,221 329% 199 205,038 672,774 3289 2028 326,255 1,074,221 329% 199 205,038 672,774 3289 2029 326,253 1,143,370 373% 178 179,402 667,384 3229 2030 298,271 1,133,370 373% 178 179,402 667,384 3229 2040 334 20,333 12,441,338 589% 145 117,477 653,996 587,774 1040,664 987% 105 106,674 349,906 5314 613,945 985,775 1040,674 987% 105 106,674 987% 105 106,674 987% 106 62,314 613,945 985,775 1040,674 987% 106 62,314 613,945 985,775 1040,674 987% 106 62,314 613,945 985,775 1040,674 987% 106 62,314 613,945 985,775 1040,674 987% 106 62,314 613,945 985,775 1040,674 987% 106 62,314 613,945 985,775 1040,674 987% 106 62,314 613,945 985,775 1040,674 987% 106 62,314 613,945 985,775 106,775 989 882,645 1,1779,969 42 2,1779 42 2,1779 42 2,1779 42 2,1		2009	1,225,767	769,442		858	1,891,874	1,208,555	64%
2012		2010	1,088,587		72%	720	1,601,919	1,171,564	73%
2013									90%
2014   970,770   1,346,909   139%   516   1,189,855   1,681,167   1400   2016   818,490   1,151,366   141%   440   810,160   1,143,200   1418   2017   757,550   1,057,878   141%   440   810,160   1,143,200   1418   2018   745,820   1,098,408   147%   366   762,675   1,123,511   1,477   2019   812,133   943,555   1,161,864   302   754,822   2021   752,228   902,288   112%   320   754,822   242,228   812,238   112%   320   754,822   242,238   112%   320   754,822   242,238   112%   320   754,822   242,238   128   242,238   242,238   128   242,238   242,238   242,238   128   242,238   244,238   242,238   244,2									106%
2015									134%
2016			· · · · · · · · · · · · · · · · · · ·						140%
Description							, ,		145%
2018   745,820   1,098,408   147%   366   762,675   1,123,511   147*							· ·		
2019   812.133   943.655   116%   339   794.213   922.626   1168   2020   806.830   902.288   112%   320   754.892   843.238   1128   2022   693.421   904.626   130%   286   593.585   772.631   1300   2024   544.827   905.277   175%   255   426.921   744.535   1744   2024   2024   460.359   969.016   210%   241   345.139   723.923   2100   2026   425.079   987.827   232%   227   304.982   706.013   2319   2025   2028   355.777   1.040.564   292%   201   233.654   680.953   2018   2029   326.235   1.074.221   329%   189   205.038   672.774   3288   226.667   1.113.370   373%   178   179.402   667.384   3722   2031   271.778   1.156.058   425%   166   156.440   663.275   425.579   2033   222.830   1.244.138   558%   145   117.477   653.996   659.976   659.									
2020							. ,	, ,	
2021									
2022   693,421   904,626   130%   286   593,585   772,631   1300									
2023				,					
2024   2025   448,827   953,277   175%   255   426,921   744,535   1749   2026   460,359   969,016   210%   241   345,139   723,923   2109   2027   387,011   1,011,720   261%   214   265,596   691,870   2600   2028   355,777   1,040,564   292%   201   233,654   680,953   2911   2029   2029   326,235   1,074,221   329%   189   205,038   672,774   3289   2029   2030   288,271   1,113,370   373%   178   179,402   667,384   3722   246,637   1,199,839   486%   155   135,866   658,917   4853   (60 Years)   2031   221,244,138   558%   145   117,477   635,996   5573   2034   200,353   1,286,212   642%   135   101,089   647,183   6400   2036   159,383   1,362,402   855%   115   73,659   628,141   8539   2038   123,727   1,410,219   1,140%   97   52,378   595,818   1,388   2039   107,927   1,417,498   1,313%   89   43,728   573,328   1,3118   2040   93,470   1,410,949   1,510%   81   36,245   546,329   1,5073   2044   48,481   1,288,283   2,955%   53   15,773   409,287   2,595   2044   48,481   1,288,283   2,955%   53   15,773   409,287   2,595   2046   33,107   1,38,666   3,493%   42   9,865   39,949   3,4418   2049-2058   2,799   882,645   31,642%   13   444   139,260   31,362   2064-2068   356   277,276   7,891%   3   446   39,660   3,677%   3   444   1,99,260   3,662   4,679							· ·		145%
2025							· ·		174%
December   Content   Con									210%
Decided   2029		2026	425,079	987,827	232%	227	304,982	706,013	231%
Projected 2030   298,271			387,011	1,011,720	261%	214	265,596	691,870	260%
Projected 2030 298,271 1,113,370 373% 178 179,402 667,384 372°   Experience 2032 246,637 1,199,839 486% 155 135,866 658,917 485°   (60 Years) 2033 222,830 1,244,138 558% 145 117,477 653,996 557°   2034 200,353 1,286,212 642% 135 101,089 647,183 640°   2035 179,217 1,326,492 740% 125 86,541 638,905 738°   2036 159,383 1,362,402 855% 115 73,659 628,141 853°   2037 140,882 1,391,064 987% 106 62,314 613,945 985°   2038 123,727 1,410,219 1,140% 97 52,378 595,818 1,138°   2039 107,927 1,417,498 1,313% 89 43,728 573,328 1,311°   2040 93,470 1,410,954 1,313% 89 43,728 573,328 1,311°   2041 80,314 1,389,571 1,730% 73 29,807 515,099 1,728°   2041 80,314 1,389,571 1,730% 73 29,807 515,099 1,728°   2043 57,867 1,309,849 2,264% 60 19,672 445,030 2,262°   2044 48,481 1,258,253 2,595% 53 15,773 409,287 2,595°   2045 40,251 1,200,787 2,983% 47 12,533 373,954 2,984°   2046 33,107 1,138,666 3,439% 42 9,865 339,499 3,441°   2048 2047 26,968 1,072,650 3,977% 37 7,691 306,187 3,981°   2048 2047 26,968 1,072,650 3,977% 37 7,691 306,187 3,981°   2048 21,770 1,003,722 4,611% 32 5,941 274,299 4,61°   2048 22,770 1,003,722 4,611% 32 5,941 274,299 4,61°   2049-2053 56,814 3,904,025 6,872% 105 13,903 945,717 6,802°   2054-2068 356 277,276 77,891% 3 46 35,261 77,066°   2064-2068 356 277,276 77,891% 3 46 35,261 77,066°   2064-2068 356 277,276 77,891% 3 46 35,261 77,066°   2064-2078 2074-2078 1 1,109,83 1,583,175% 0 0 0 966 15,547,404°   Future 8,702,809 42,010,382 483% 4,808 6,311,165 19,960,233 316°				1,040,564					291%
Future							· ·	,	328%
Experience (60 Years)							· ·		372%
(60 Years)				, ,			· ·		424%
2034 200,353 1,286,212 642% 135 101,089 647,183 640° 2035 179,217 1,326,492 740% 125 86,541 638,905 738° 2036 159,383 1,362,402 855% 115 73,669 628,141 853° 2037 140,882 1,391,064 987% 106 62,314 613,945 985° 2038 123,727 1,410,219 1,140% 97 52,378 595,818 1,318° 2039 107,927 1,417,498 1,313% 89 43,728 573,328 1,311° 2040 93,470 1,410,954 1,510% 81 36,245 546,329 1,507° 2041 80,314 1,389,571 1,730% 73 29,807 515,099 1,728° 2042 68,460 1,354,820 1,979% 66 24,317 480,802 1,977° 2043 57,867 1,309,849 2,264% 60 19,672 445,030 2,262° 2044 48,481 1,258,253 2,595% 53 15,773 409,287 2,595° 2045 40,251 1,200,787 2,983% 47 12,533 373,954 2,984° 2046 33,107 1,138,666 3,439% 42 9,865 339,499 3,441° 2047 26,968 1,072,650 3,977% 37 7,691 306,187 3,981° 2048 21,770 1,003,722 4,611% 32 5,941 274,299 4,617° 2049-2053 56,814 3,904,025 6,872% 105 13,903 945,717 6,802° 2059-2063 2,789 882,645 31,642% 13 444 139,260 31,362° 2064-2068 356 277,276 77,891% 3 46 35,261 77,066° 2074-2078 1 11,698 1,583,175% 0 0 0 966 1,547,404° 408 Future 8,702,809 42,010,382 483% 4,808 6,311,165 19,960,233 316° 2074-2078 1 11,698 1,583,175% 0 0 0 966 1,547,404° 50 10 10 10 10 10 10 10 10 10 10 10 10 10	•								
2035	(60 Years)								
2036			· · · · · · · · · · · · · · · · · · ·				· ·		
2037				, ,			· ·		
2038									
2039									
2040									
2041									
2042									1,728%
2043         57,867         1,309,849         2,264%         60         19,672         445,030         2,2629           2044         48,481         1,258,253         2,595%         53         15,773         409,287         2,5959           2045         40,251         1,200,787         2,983%         47         12,533         373,954         2,9849           2046         33,107         1,138,666         3,439%         42         9,865         339,499         3,4419           2047         26,968         1,072,650         3,977%         37         7,691         306,187         3,9819           2048         21,770         1,003,722         4,611%         32         5,941         274,299         4,6179           2049-2053         56,814         3,904,025         6,872%         105         13,903         945,717         6,8029           2054-2058         14,748         2,136,832         14,489%         42         2,909         417,917         14,3659           2059-2063         2,789         882,645         31,642%         13         444         139,260         31,3629           2064-2068         356         277,276         77,891%         3         46					,				1,977%
2044						60			2,262%
2045		2044	48,481	1,258,253	2,595%	53	15,773	409,287	2,595%
2047		2045	40,251	1,200,787	2,983%	47	12,533	373,954	2,984%
2048						42			3,441%
2049-2053   56,814   3,904,025   6,872%   105   13,903   945,717   6,8029									3,981%
2054-2058				, ,			· ·	,	4,617%
2059-2063   2,789   882,645   31,642%   13   444   139,260   31,3629   3264-2068   356   277,276   77,891%   3   46   35,261   77,0669   2069-2073   25   65,630   263,604%   0   3   6,725   258,9269   1   11,698   1,583,175%   0   0   966   1,547,4049   1,547,404									6,802%
2064-2068   356   277,276   77,891%   3   46   35,261   77,0669   2074-2078   1   11,698   1,583,175%   0   0   0   966   1,547,4049				, ,	,				
2069-2073   25   65,630   263,604%   0   3   6,725   258,926%   1   11,698   1,583,175%   0   0   0   966   1,547,404%									
History Future 8,702,809 42,010,382 1,583,175% 0 0 0 966 1,547,4049 409 409 409 409 409 409 409 409 409									
History 32,410,582 17,570,699 54% 21,446 67,344,225 27,060,780 40% Future 8,702,809 42,010,382 483% 4,808 6,311,165 19,960,233 316%									
Future 8,702,809 42,010,382 483% 4,808 6,311,165 19,960,233 3169		2014-2018	1	11,098	1,563,175%	Ü	0	900	1,547,404%
Future 8,702,809 42,010,382 483% 4,808 6,311,165 19,960,233 3169	His	tory	32,410,582	17,570,699	54%	21,446	67,344,225	27,060,780	40%
		,							316%
	Life	time	41,113,391	59,581,082		26,254	73,655,390	47,021,014	64%

Attachment 3-b MedAmerica and Affinity Partners Written Premium and Paid Claim Experience and Projections by Calendar Year Pennsylvania-Specific Experience After Requested Rate Increase Series 11 and Prior Policy Forms

				Los	s Ratio Demonstr	ration		
			Without Interest				ith Max. Val. Inter	
		Α	В	C = B / A	D	E	F	G = F / E
		14/1/	5			147.00	5	
	Calendar	Written	Paid	. D.	End of Year	Written	Paid	
	Year	Premium	Claims	Loss Ratio	Lives	Premium	Claims	Loss Ratio
	1992	127,778	0 435	0% 0%	111 580	528,014		0% 0%
	1993 1994	771,602 1,646,826	45,498	3%	1,190	2,723,433 5,481,903		3%
	1994	1,722,034	63,694	4%	1,165	5,342,668		4%
	1996	1,554,699	57.268	4%	1,055	4,581,861	171,662	4%
	1997	1,395,175	34,233	2%	953	3,919,636	,	2%
	1998	1,334,369	1,801	0%	912	3,570,919	,	0%
	1999	1,284,526	169,733	13%	872	3,266,671	442,693	14%
	2000	1,267,362	413,900	33%	859	3.060.933	,	33%
	2001	1,240,506	488,498	39%	895	2,840,696	,,	40%
	2002	1,491,708	609,346	41%	1,036	3,218,709	1,347,361	42%
Historical	2003	1,584,734	748,375	47%	1,078	3,246,745		49%
Experience	2004	1,622,837	647,095	40%	1,139	3,161,126	1,288,007	41%
	2005	1,563,977	660,435	42%	1,089	2,905,534	1,245,652	43%
	2006	1,461,395	842,743	58%	1,021	2,590,405	1,506,285	58%
	2007	1,384,149	909,721	66%	983	2,342,450	1,557,986	67%
	2008	1,305,785	953,070	73%	906	2,110,532	1,569,764	74%
	2009	1,225,767	769,442	63%	858	1,891,874		64%
	2010	1,088,587	781,353	72%	720	1,601,919	1,171,564	73%
	2011	1,044,143	922,011	88%	664	1,467,006		90%
	2012	1,065,337	1,110,217	104%	605	1,430,477		106%
	2013	1,052,019	1,400,952	133%	553	1,349,191	1,814,559	134%
	2014	970,770	1,346,909	139%	516	1,189,655		140%
	2015	882,638	1,276,318	145%	472	1,033,315		145%
	2016	818,490	1,151,366	141%	440	915,718		141%
	2017	757,550 745,820	1,067,878	141% 147%	408 366	810,160	, ,	141%
	2018 2019	812,172	1,098,408 943,655	116%	339	762,675 794,251	1,123,511 922,626	147% 116%
	2020	921,967	900,767	98%	310	,	,	98%
	2021	969,655	954,495	98%	286	867,680		98%
	2022	899,170	886,008	99%	270	769,769	,	98%
	2023	835,764	906,897	109%	256	684,576	,	108%
	2024	715,552	919,165	128%	242	560,758	,	128%
	2025	611,324	928,418	152%	228	458,379	693,574	151%
	2026	567,149	941,204	166%	215	406,966	672,668	165%
	2027	519,546	959,366	185%	203	356,614	656,040	184%
	2028	480,217	982,556	205%	191	315,438	642,960	204%
	2029	442,851	1,010,225	228%	180	278,385	,	227%
Projected	2030	407,288	1,042,902	256%	169	245,022	,	255%
Future	2031	373,368	1,078,719	289%	158	214,962		288%
Experience	2032	340,911	1,115,402	327%	148	187,841		326%
(60 Years)	2033	309,912	1,152,429	372%	138	163,424	,	371%
	2034	280,354	1,187,380	424%	128	141,487		422%
	2035	252,260	1,220,689	484%	119	121,841		483%
	2036	225,609	1,250,174	554%	110	,	576,336	553%
	2037 2038	200,470 176,888	1,273,393 1,288,394	635% 728%	101 93	88,690 74,898	561,953 544,296	634% 727%
	2039	154,925	1,293,132	835%	85	62,782		833%
	2040	134,607	1,285,893	955%	78	52,206		954%
	2041	115,922	1,265,813	1,092%	71	43,029	469,204	1,090%
	2042	98,936	1,234,261	1,248%	64	35,146		1,246%
	2043	83,635	1,194,211	1,428%	57	28,434		1,427%
	2044	69,989	1,148,840	1,641%	52	22,772		1,641%
	2045	57,971	1,098,692	1,895%	46	18,051	342,187	1,896%
	2046	47,513	1,044,643	2,199%	41	14,159	311,501	2,200%
	2047	38,523	987,090	2,562%	36	10,986	281,804	2,565%
	2048	30,925	926,551	2,996%	31	8,440		3,001%
	2049-2053	79,385	3,630,953	4,574%	102	19,437		4,525%
	2054-2058	19,995	2,008,204	10,044%	41	3,946		9,955%
	2059-2063	3,690	836,375	22,665%	13	588		22,459%
	2064-2068	455	264,333	58,061%	3	59		57,427%
	2069-2073	30	62,837	212,118%	0			208,028%
	2074-2078	1	11,238	1,337,846%	0	0	928	1,307,784%
Hist	tory	32,410,582	17,570,699	54%	21,446	67,344,225	27,060,780	40%
Futi		11,278,930	39,235,304	348%	4,606	8,017,727		235%
. att	time	43,689,512	56,806,003	130%	26,052	75,361,952		61%

### Attachment 4 **MedAmerica and Affinity Partners** Breakdown of Historical Incurred Claims and Reserve Balances at December 31, 2018 Series 11 and Prior Policy Forms

Nationwide Experience

			ed to the Year o			Year-End
Incurred	Incurred	Paid	Disabled	IBNR	Total Claim	Active Life
Year	Claims <sup>[1]</sup>	Claims	Life Reserve	Reserve	Reserve <sup>[2]</sup>	Reserve <sup>[3]</sup>
1992	0	0	0		0	
1993	112,031	112,031	0		0	
1994	28,415	28,415	0		0	
1995	109,652	109,652	0		0	
1996	134,262	134,262	0		0	
1997	258,439	258,439	0		0	
1998	631,867	631,867	0		0	
1999	1,469,714	1,469,714	0		0	
2000	1,172,992	1,172,992	0		0	
2001	2,031,477	2,031,477	0		0	
2002	4,129,889	3,997,455	132,434		132,434	
2003	3,320,983	3,293,738	27,245		27,245	
2004	6,241,153	6,241,153	0		0	
2005	6,804,563	6,731,365	73,198		73,198	
2006	7,236,076	7,090,556	145,520		145,520	
2007	10,582,193	10,392,876	189,317		189,317	
2008	8,154,815	8,104,854	49,961		49,961	
2009	11,148,740	10,848,203	300,536		300,536	
2010	15,825,758	14,811,026	1,014,732		1,014,732	
2011	13,405,255	13,034,288	370,967		370,967	
2012	15,249,799	14,331,794	918,005		918,005	
2013	14,358,025	13,489,692	868,333		868,333	
2014	22,522,172	19,333,729	3,188,443		3,188,443	
2015	23,851,868	15,548,243	8,303,625		8,303,625	
2016	21,675,244	12,688,209	8,987,035		8,987,035	
2017	26,052,673	8,940,139	17,112,534		17,112,534	
2018	22,741,293	2,229,329	16,130,518	4,381,446	20,511,964	367,206,640

Pennsylvania-Specific Experience

Pennsylvania-Specific Experience									
			ed to the Year o			Year-End			
Incurred	Incurred	Paid	Disabled	IBNR	Total Claim	Active Life			
Year	Claims <sup>[1]</sup>	Claims	Life Reserve	Reserve	Reserve <sup>[2]</sup>	Reserve <sup>[3]</sup>			
1992	0	0	0		0				
1993	112,031	112,031	0		0				
1994	28,415	,	0		0				
1995	55,039	55,039	0		0				
1996	5,871	5,871	0		0				
1997	114,890	114,890	0		0				
1998	235,553	235,553	0		0				
1999	377,829	377,829	0		0				
2000	481,212	481,212	0		0				
2001	713,556	713,556	0		0				
2002	745,816	745,816	0		0				
2003	464,534	464,534	0		0				
2004	958,964	958,964	0		0				
2005	656,165	656,165	0		0				
2006	751,072	751,072	0		0				
2007	940,403	940,403	0		0				
2008	815,074	815,074	0		0				
2009	777,589	777,589	0		0				
2010	817,263	817,263	0		0				
2011	1,478,296	1,419,341	58,955		58,955				
2012	1,289,377		0		0				
2013	974,481	974,481	0		0				
2014	1,541,550	1,371,110	170,440		170,440				
2015	2,274,579	1,317,942	956,637		956,637				
2016	454,863	350,229	104,634		104,634				
2017	1,455,496	600,554	854,942		854,942				
2018	520,614	89,750	279,884	150,980	430,864	7,953,277			

<sup>[1]</sup> Incurred claims are the sum of paid claims, disabled life reserve, and incurred but not reported (IBNR) reserve.

<sup>[2]</sup> Claim reserve is the sum of disabled life reserve and IBNR reserve.
[3] Active life reserve is defined as interpolated terminal reserves plus unearned premium reserves.

# Attachment 5-a MedAmerica and Affinity Partners Actual and Projected Experience using Current Assumptions by Policy Year Nationwide Experience Before Requested Rate Increase Series 11 and Prior Policy Forms

	Loss Ratio Demonstration						
	Α	В	С	D	E		
					Cumulative Loss		
Policy	Earned	Incurred	Incurred	End of Year	Ratio w/ Max.		
Year	Premium	Claims	Loss Ratio	Lives	Val. Interest		
1	39,718,176	1,747,697	4%	·	4%		
2	36,464,683	1,769,811	5%	24,550			
3	34,637,458	3,134,306	9%	23,446			
4	33,269,635	7,731,617	23%		10%		
5	32,327,154	6,090,854	19%		11%		
6	31,468,971	9,289,834	30%		14%		
7	30,749,469	9,041,797	29%	·	15%		
8	30,227,128	14,806,631	49%	·	19%		
9	29,838,979	15,293,304	51%		21%		
10	30,111,226	13,689,648	45%		23%		
11	23,344,686	15,864,982	68%	·	25%		
12	22,911,796	19,492,712	85%	·	28%		
13	22,357,648	19,306,762	86%		31%		
14	21,830,738	19,279,958	88%		33%		
15	21,307,001	24,587,726	115%	·	36%		
16	21,068,252	24,567,034	117%	·	38%		
17	20,854,312	23,540,758	113%		40%		
18	20,520,118	29,030,001	141%	-			
19	20,011,880	28,719,099	144%	·	45%		
20	19,429,656	29,927,701	154%	•	48%		
21	17,683,174	31,750,929	180%		50%		
22	16,776,847	33,839,731	202%		53%		
23	15,800,891	35,768,668	226%	·	55%		
24	14,836,082	37,979,437	256%		58%		
25	13,862,339	40,631,481	293%		60%		
26	12,902,087	42,643,110	331%	·	63%		
27	11,950,198	44,975,327	376%	·	66%		
28	11,014,325	47,285,258	429%		69%		
29	10,102,855	49,401,522	489%		72%		
30	9,222,298	51,245,903	556%		74%		
31	8,376,802	52,825,542	631%	·	77%		
32	7,569,986	54,153,701	715%	·	80%		
33 34	6,804,890	55,116,152 55,760,104	810% 917%	·	83% 85%		
	6,083,913	55,769,194		5,656			
35 36	5,409,196 4,782,507	55,930,630 55,619,622	1,034% 1,163%	5,222 4,803	88% 91%		
37	4,762,507	54,852,122	1,305%	4,403	93%		
38	3,675,251	53,670,929	1,460%	4,403	95% 95%		
39	3,194,249	52,096,326	1,631%	3,661	97%		
40	2,760,445	50,220,434	1,819%	3,322	99%		
41	2,760,445	48,046,211	2,025%	3,005	101%		
42	2,027,211	45,677,793	2,253%	2,710	102%		
43	1,723,062	43,175,389	2,506%	2,437	104%		
44	1,456,876	40,501,308	2,780%	2,437	105%		
45	1,225,643	37,669,560	3,073%	1,957	106%		
46-50	3,664,050	146,871,972	4,008%	7,015	110%		
51-55	1,385,187	87,090,041	6,287%	3,833	112%		
56-60	486,525	44,398,432	9,126%	2,001	113%		
61-65	155,103	19,642,542	12,664%	949	113%		
66-70	42,929	7,487,981	17,443%	367	113%		
71-75	9,977	2,186,102	21,912%	99	114%		
	0,011	2,100,102	21,01270		11-470		
Total	744,010,534	1,795,435,579	241%	542,641	114%		
	-			•			

# Attachment 5-b MedAmerica and Affinity Partners Actual and Projected Experience using Current Assumptions by Policy Year Nationwide Experience After Requested Rate Increase Series 11 and Prior Policy Forms

	Loss Ratio Demonstration							
	Α	В	С	D	E			
					Cumulative Loss			
Policy	Earned	Incurred	Incurred	End of Year	Ratio w/ Max.			
Year	Premium	Claims	Loss Ratio	Lives	Val. Interest			
1	39,718,176	1,747,697	4%	26,142	4%			
2	36,464,683	1,769,811	5%	24,550	5%			
3	34,641,605	3,134,258	9%	23,444	6%			
4	33,303,326	7,731,201	23%	22,459	10%			
5	32,395,258	6,090,069	19%	21,800	11%			
6	31,604,573	9,288,006	29%	21,129	14%			
7	30,927,101	9,038,674	29%	20,500	15%			
8	30,446,683	14,801,671	49%	19,802	19%			
9	30,138,933	15,284,378	51%	19,123	21%			
10	30,524,337	13,673,607	45%	18,528	23%			
11	23,834,017	15,840,537	66%	17,912	25%			
12	23,459,261	19,459,084	83%	17,334	28%			
13	23,002,642	19,260,907	84%		30%			
14	22,654,952	19,212,155	85%		32%			
15	22,322,901	24,485,396	110%		35%			
16	22,451,586	24,403,556	109%	14,415	38%			
17	23,097,916	23,237,984	101%	13,672	40%			
18	24,297,750	28,440,180	117%	12,969	42%			
19	25,254,902	27,797,884	110%	12,379	44%			
20	25,779,644	28,606,571	111%	11,827	46%			
21	24,285,929	29,968,434	123%	11,296	48%			
22	23,781,864	31,641,851	133%	10,780	50%			
23	22,823,513	33,206,559	145%	10,310	52%			
24	21,655,811	35,083,299	162%	9,841	53%			
25	20,388,349	37,409,594	183%	9,382	56%			
26	19,045,242	39,140,107	206%	8,927	58%			
27	17,672,530	41,225,324	233%	8,472	60%			
28	16,295,238	43,322,192	266%	8,019	62%			
29	14,945,529	45,254,948	303%	7,566	64%			
30	13,634,380	46,950,048	344%	7,117	67%			
31	12,374,937	48,412,853	391%		69%			
32	11,173,913	49,653,394	444%		71%			
33	10,035,948	50,564,549	504%		73%			
34	8,964,646	51,192,297	571%	5,381	76%			
35	7,963,116	51,370,460	645%	4,973	78%			
36	7,033,908	51,120,983	727%	4,580	80%			
37	6,177,889	50,456,239	817%	4,203	82%			
38	5,394,874	49,415,671	916%	3,844	83%			
39	4,684,039	48,018,635	1,025%	3,503	85%			
40	4,043,600	46,345,274	1,146%	3,182	87%			
41	3,470,880	44,398,990	1,279%	2,882	88%			
42	2,962,603	42,260,428	1,426%	2,603	89%			
43	2,514,857	39,989,056	1,590%	2,344	91%			
44	2,123,391	37,547,585	1,768%	2,105	92%			
45	1,783,697	34,955,666	1,960%	1,887	93%			
46-50	5,308,862	136,721,530	2,575%	6,786	96%			
51-55	1,988,230	81,359,548	4,092%	3,730	98%			
56-60	691,114	41,543,563	6,011%	1,958	99%			
61-65	217,912	18,442,502	8,463%	932	99%			
66-70	59,967	7,047,672	11,753%	362	99%			
71-75	14,095	2,055,883	14,586%	97	99%			
Total	859,831,113	1,679,378,762	195%	531,638	99%			
iotai	000,001,110	1,010,010,102	190 /0	331,030	<del>33</del> 70			

## Attachment 6-a MedAmerica and Affinity Partners Actual and Projected Experience using Current Assumptions by Policy Year Pennsylvania-Specific Experience Before Requested Rate Increase Series 11 and Prior Policy Forms

		Loss Ratio Demonstration							
	Α	В	С	D	E				
				E 1 ()/	Cumulative Loss				
Policy	Earned	Incurred	Incurred	End of Year	Ratio w/ Max.				
Year	Premium 3,430,753	Claims	Loss Ratio	Lives	Val. Interest				
1 2	2,690,162	140,446 35,491	4% 1%	1,862 1,638	4% 3%				
3	2,388,306	71,375	3%	1,512	3%				
4	2,388,300	148,292	7%	1,423	4%				
5	2,098,971	295,943	14%	1,347	5%				
6	2,002,605	851,190	43%	1,293	10%				
7	1,895,650	924,528	49%	1,228	13%				
8	1,785,541	1,026,236	57%	1,159	17%				
9	1,694,587	814,771	48%	1,084	19%				
10	1,603,044	905,217	56%	1,015	21%				
11	1,491,168	838,834	56%	946	23%				
12	1,409,267	1,987,531	141%	879	27%				
13	1,319,189	1,131,795	86%	831	29%				
14	1,253,345	912,183	73%	778	31%				
15	1,195,061	1,806,052	151%	724	34%				
16	1,136,448	1,163,122	102%	656	36%				
17	1,092,768	763,716	70%	588	36%				
18	1,057,149	1,934,914	183%	521	39%				
19	1,026,823	1,368,533	133%	480	41%				
20	981,326	1,729,958	176%	444	43%				
21	786,250	1,408,742	179%	403	44%				
22	707,247	1,149,586	163%	363	46%				
23	628,006	944,214	150%	328	46%				
24	570,513	1,309,440	230%	301	48%				
25	522,813	1,389,870	266%	278	49%				
26	485,978	1,300,413	268%	258	50%				
27	446,957	1,274,234	285%	238	51%				
28	404,621	1,304,653	322%	220	52%				
29	362,733	1,331,847	367%	203	54%				
30	323,928	1,352,513	418%	186	55%				
31	288,349	1,370,693	475%	171	56%				
32	255,819	1,397,350	546%	156	57%				
33	226,244	1,420,544	628%	143	58%				
34	199,434	1,438,867	721%	130	59%				
35	175,135	1,446,013	826%	118	60%				
36	153,153	1,447,213	945%	107	60%				
37	133,317	1,426,729	1,070%	97 87	61% 62%				
38 39	115,408 99,247	1,385,391 1,329,493	1,200% 1,340%	67 78	63%				
40	84,738	1,269,554	1,498%	78 70	63%				
41	71,790	1,199,024	1,670%	62	64%				
42	60,270	1,131,763	1,878%	55	64%				
43	50,089	1,055,303	2,107%	48	65%				
44	41,184	974,098	2,365%	42	65%				
45	33,476	889,172	2,656%	36	66%				
46-50	87,735	3,062,614	3,491%	113	67%				
51-55	21,919	1,198,020	5,466%	43	67%				
56-60	3,810	320,434	8,409%	12	67%				
61-65	424	57,021	13,456%	2	67%				
66-70	24	5,787	23,866%	0	67%				
71-75	0	256	53,027%	0	67%				
Total	44 442 204	55 440 070	135%	04.756	670/				
Total	41,113,391	55,440,979	135%	24,756	67%				

## Attachment 6-b MedAmerica and Affinity Partners Actual and Projected Experience using Current Assumptions by Policy Year Pennsylvania-Specific Experience After Requested Rate Increase Series 11 and Prior Policy Forms

	Loss Ratio Demonstration							
	Α	В	С	D	Е			
					Cumulative Loss			
Policy	Earned	Incurred	Incurred	End of Year	Ratio w/ Max.			
Year	Premium	Claims	Loss Ratio	Lives	Val. Interest			
1	3,430,753	140,446	4%	1,862	4%			
2	2,690,162	35,491	1%	1,638				
3	2,388,306	71,375	3%	1,512				
4	2,220,615	148,292	7%	1,423	4%			
5	2,098,971	295,943	14%	1,347	5%			
6	2,002,605	851,190	43%	1,293				
7	1,895,650	924,528	49%	1,228	13%			
8	1,785,541	1,026,236	57%	1,159	17%			
9	1,694,587	814,771	48%	1,084	19%			
10	1,603,044	905,217	56%	1,015	21%			
11	1,491,168	838,834	56%	946	23%			
12	1,409,267	1,987,531	141%	879	27%			
13	1,319,189	1,131,795	86%	831	29%			
14	1,253,541	912,184	73%	778				
15	1,196,196	1,806,050	151%	724				
16	1,144,106	1,163,170	102%	656	36%			
17	1,119,020	763,096	68%	586				
18	1,121,662	1,929,965	172%	516				
19	1,128,801	1,357,416	120%	471	41%			
20	1,140,540	1,706,764	150%	432	43%			
21	929,284	1,378,680	148%	392	44%			
22	853,400	1,112,045	130%	352				
23	774,737	899,058	116%	317	46%			
24	712,368	1,258,223	177%	291	47%			
25	658,425	1,333,029	202%	267	48%			
26	617,518	1,236,804	200%	247	49%			
27	578,900	1,200,614	207%	227	50%			
28	534,243	1,220,843	229%	209	51%			
29	488,088	1,238,779	254%	192				
30	439,901	1,253,246	285%	177	53%			
31	394,681	1,265,779	321%	162				
32	352,921	1,285,901	364%	149	55%			
33	314,548	1,303,300	414%	136				
34	279,364	1,317,013	471%	124				
35	247,078	1,321,100	535%	113	57%			
36	217,511	1,320,258	607%	102	58%			
37	190,512	1,300,659	683%	93	58%			
38	165,840	1,262,805	761%	83				
39	143,309	1,212,483	846%	75	60%			
40	122,860	1,159,170	943%	67	60%			
41	104,431	1,097,081	1,051%	59	61%			
42	87,889	1,038,059	1,181%	52	61%			
43	73,162	970,749	1,327%	46	62%			
44	60,214	898,385	1,492%	40	62%			
45	48,958	822,080	1,679%	35	62%			
46-50	127,994	2,850,520	2,227%	110	63%			
51-55	31,629	1,128,568	3,568%	42	64%			
56-60	5,404	305,362	5,650%	12	64%			
61-65	584	55,030	9,425%	2	64%			
66-70	32	5,684	17,996%	0	64%			
71-75	1	257	46,749%	0	64%			
	(0.000.5:5	F0 004 6==	10.00	24.55	<b>^</b>			
Total	43,689,512	52,861,855	121%	24,554	64%			

### <INSERT LETTERHEAD>

### Letter of Authorization

To: Department of Insurance

MedAmerica Insurance Company ("MedAmerica") has entered into a service agreement with Milliman, Inc. ("Milliman") effective October 3, 2016, that includes long-term care rate filing services on our behalf. The agreement provides, in part, that Milliman is responsible for preparing and filing for approval with state insurance departments MedAmerica's long-term care rate increase filings as directed by MedAmerica. Milliman is also authorized to receive, on MedAmerica's behalf, written and oral communication from each state department of insurance for the purpose of completing the rate increase filing process.

MedAmerica is the reinsurer and/or administrator of a block of long-term care policies originally issued by the company.

Please accept this letter of authorization for the purpose stated above. Should you have any questions regarding the above, please forward your comments to:

MedAmerica Insurance Company 165 Court Street Rochester, NY 14647

<Name>, <Title>

Company Name>
Thomas A Doran

Cro, Highmanh Inc

/-27-20 Date Home Office: Wilkes-Barre, PA

### Time-Sensitive! Action Needed - Review Options and Make Your Decision RE: Your Long Term Care Insurance Notice of Premium Increase — Please Read & Retain for Your Records

<<FIRST\_NAME>> <<LAST\_NAME>> <<STREET\_ADDRESS1>> <<STREET\_ADDRESS2>> <<CITY>> <<STATE>> <<ZIP>>

<<DATE>>
Billing Account ID: <<POLICY NUMBER>>

Dear <<SALUTATION LAST NAME>>:

We are writing to notify you that we have filed a premium increase of <<INC\_AMT>> with the Department of Insurance. This premium change is based on the overall experience of all contracts in your class and has nothing to do with your current age, health status, claims history or any other personal factors. This increase applies to all insureds having the same policy form as you, regardless of the effective date of coverage. Please be advised that premiums are subject to future rate increases.

The premium rate increase for your long term care insurance coverage will change on <<NEXT\_BILL\_DATE>>. Your <<MODAL>> premium payment will change from <<CURRENT\_RATE>> to <<FUTURE RATE>>.

We understand this premium increase may affect your ability to afford your current level of benefits. Please review the options regarding your coverage that are outlined below and make the decision that best meets your needs.

- Option #1: Continue your coverage at your current level of benefits. You may keep your current level of benefits by paying the increased premium when it is due on <<NEXT\_BILL\_DATE>>. If you choose this option, no additional action, other than your premium payment, is required. Please understand that paying the increased premium for coverage through 120 days from the date of the rate increase constitutes your acceptance of the rate increase and voids the offer of the Contingent Non-Forfeiture Benefit outlined in Option #3 below.
- Option #2: Offset the increased premium by reducing your level of benefits. You <u>may</u> be able to adjust your benefits to reduce your premium. Please understand that this option is not always available as you may have selected the state-mandated minimum benefits allowable for long term care insurance. Please call Customer Service toll free at 1-800-240-1675 to discuss your options.
- Option #3: Elect the reduced Contingent Non-Forfeiture Benefit.

If you elect the Contingent Non-Forfeiture Benefit Option, no further premium is due. This option becomes effective as of your current paid through date. As of the date of this letter, your Contingent Non-Forfeiture Benefit would be <<RESULT\_OF\_CNF\_FORMULA>>.

There are two ways to elect the Contingent Non-Forfeiture Benefit:

- Choose this option today by signing and dating the enclosed Contingent Non-Forfeiture Benefit Election Form and returning it in the enclosed postage-paid envelope; OR
- If you do not pay the increased premium <u>within 120 days of the due date</u>, which is <<NEXT\_BILL\_DATE>>, you will be entitled to the Contingent Non-Forfeiture Benefit. We will automatically change your coverage to the Contingent Non-Forfeiture Benefit in lieu of your policy lapsing for non-payment of premium.

<u>IMPORTANT:</u> Paying the increased premium for coverage through 120 days from <<NEXT\_BILL\_DATE>>, constitutes your acceptance of the rate increase and voids the Contingent Non-Forfeiture Benefit offer.

### What is the Contingent Non-Forfeiture Benefit?

The Contingent Non-Forfeiture Benefit Option allows you to retain reduced long term care insurance benefits in the event you can no longer afford your premium due to a substantial premium increase. Under this option, the same **Daily Benefit Amount** in effect at the time of the lapse will be payable, but the **Lifetime Benefit Amount** will be equal to the greater of the items a) or b) below:

- a) The total amount of premiums paid and applied to Your Policy; **OR**
- b) Thirty (30) times the Daily Benefit Amount

The total of all benefits paid under your policy will not exceed the **Lifetime Benefit Amount** that would have been payable if your policy did not lapse.

Important facts to know about this reduced benefit are:

- No future premium is due.
- The Lifetime Benefit Amount is significantly less than the benefit provided if you choose to continue paying your premium.
- All riders and inflation options will be terminated.
- All other terms, conditions, limitations and exclusions in your current coverage apply to the Contingent Non-Forfeiture Benefit.

<u>IMPORTANT NOTE:</u> If your policy includes a Spousal Benefit Transfer Rider, both you and your spouse must continue to maintain identical coverage. You must both select the same option regarding this rate increase.

If you have questions on the above options, please call Customer Service toll free at **1-800-240-1675** between the hours of 8:30 a.m. and 5 p.m. EST, Monday through Friday.

If you are currently on claim and your premium is being waived, the increase will be applied when your premium is no longer being waived. Please be assured that your benefits are not affected and that your claims will continue to be paid.

As always, thank you for your business with the company.

Sincerely,

Cheryl Bush, RN

They Bushen

Senior Vice President, Long Term Care Operations

**Home Office:** Wilkes-Barre, PA

### Contingent Non-Forfeiture Benefit Election Form

< <first_name>&gt; &lt;<last_name>&gt;</last_name></first_name>
< <street_address1>&gt;</street_address1>
< <street_address2>&gt;</street_address2>
< <city>&gt; &lt;<state>&gt; &lt;<zip>&gt;</zip></state></city>

<<DATE>>
Billing Account ID: <<POLICY NUMBER>>

I have decided to stop future premium payments and accept the reduced Contingent Non-Forfeiture Benefit.

I understand the following:

- No future premium is due; and
- I will have a reduced lifetime benefit equal to the sum of all premiums paid and applied to date, OR thirty (30) times the Daily Benefit Amount, whichever is greater; and
- The Contingent Non-Forfeiture Benefit is significantly less than the benefit provided if I chose to keep paying my premium; and
- The Contingent Non-Forfeiture Benefit is only available if I satisfy the requirements for Benefit Eligibility as defined in my policy or certificate; and
- The Contingent Non-Forfeiture Benefit will be payable up to my Daily Benefit Amount in effect on the date of this change; and
- All riders and inflation options will be terminated; and
- All other terms, conditions, limitations and exclusions in my current coverage apply to the Contingent Non-Forfeiture Benefit.

### Signature:

I request my current long term care insurance coverage be reduced to the Contingent Non-Forfeiture Benefit offered by the company. This option becomes effective as of my current paid through date. This option is not a cash refund. A summary of Contingent Non-Forfeiture Benefits will be sent to me when this request is processed.

Signature	Date

Mailing Instructions: Sign and date this form and return in the enclosed postage-paid envelope.